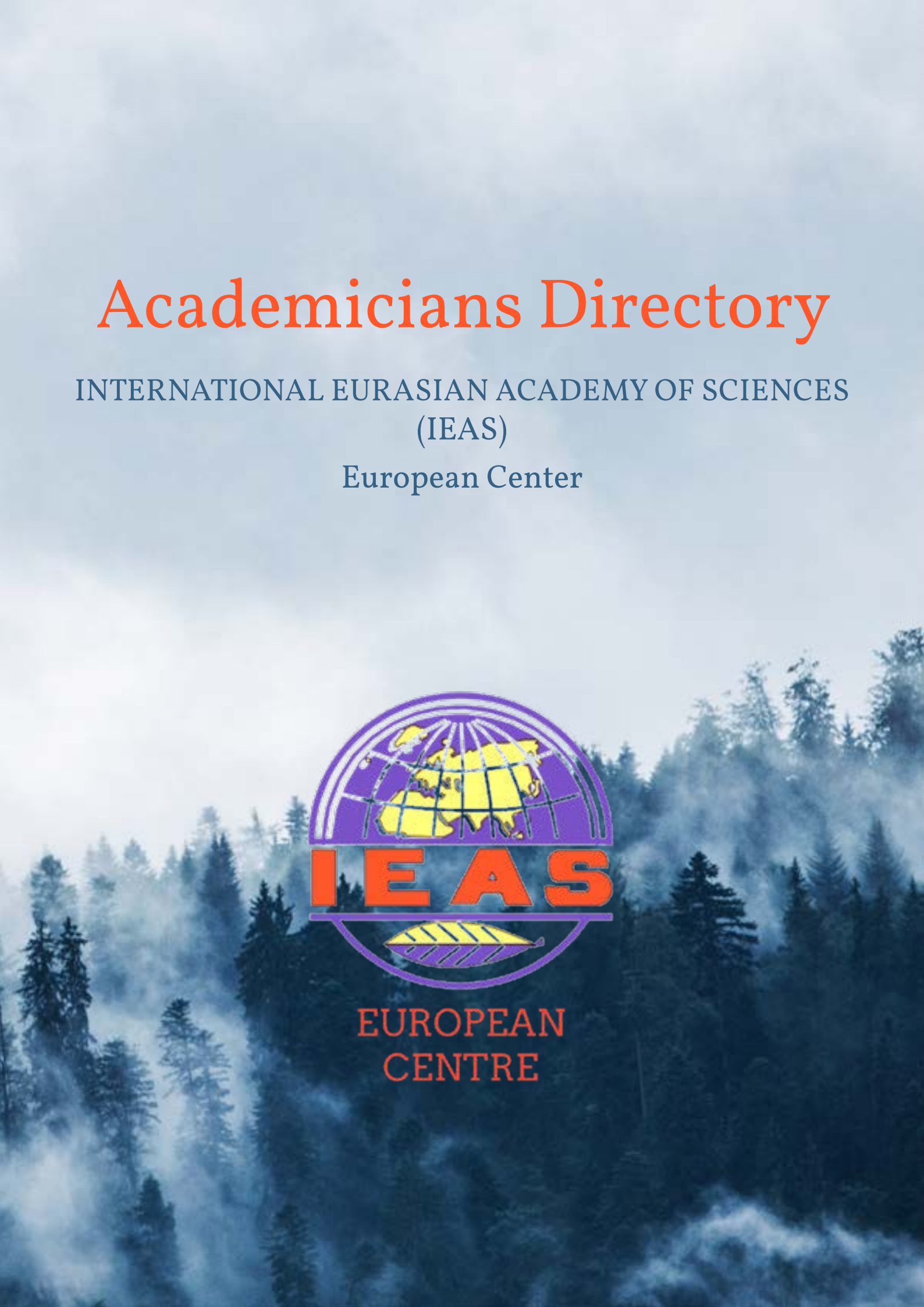
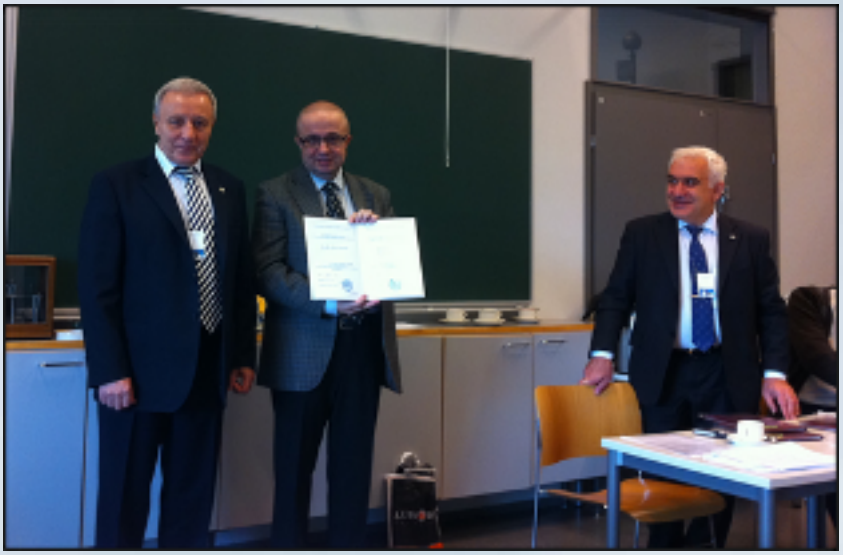
Academicians Directory

INTERNATIONAL EURASIAN ACADEMY OF SCIENCES
(IEAS)

European Center

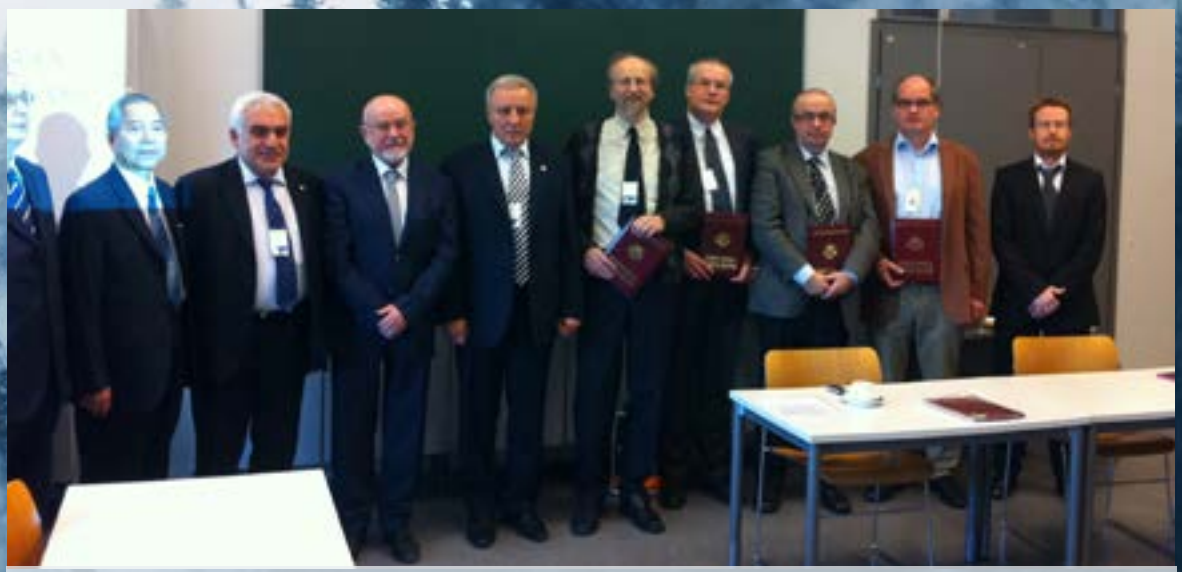




IEAS President Bondur and IEAS Vice President Markku Kulmala at the opening of the European Center in Helsinki

The European Center of International Eurasian Academy of Sciences (IEAS) and its Headquarters (HQ) was established at Masaryk University, Czech Republic and lead by Professor Milan Konecny. Starting from October 2012 the IEAS European Center is located in Finland - at the former Faculty of Atmospheric Research, now the Institute for Atmospheric and Earth System Research (INAR), University of Helsinki. The Center is lead by Academician, Professor Markku Kulmala. IEAS-Europe represents an interdisciplinary research platform involving leading scholars from European countries. Current activities of IEAS-Europe focus on facilitating the dialogue between different disciplines to find solutions on Grand Challenges with emphases on the climate change and global pollution in Eurasian region by organizing the Sofia Earth Forum(s) and other events bridging exact science, humanities practical applications and decision making.

Contents



First group of newly elected IEAS members belonging to the new European Center in Helsinki: Prof. Markku Kulmala, Prof. Alexander Baklanov, Prof. Yrjö Viisanen, Dr. Igor Esau and Prof. Tuukka Petäjä. October 2012, Photo by H.K. Lappalainen

I. Foreword

Earth's system is facing several interlinked environmental challenges on a global scale, called "Grand Challenges". The growing population needs more fresh water, food and energy. These increasing needs have already led us to face climate change, declining air quality, acidification, loss of biodiversity and shortages of fresh water and food supplies. The Grand Challenges are the main factors controlling human well-being and the security and stability of future societies, and they cannot be solved separately. We need a common framework, in which scientists are be able to deliver a science-based message being legitimated to fast-track policy making.

International Eurasian Academy (IEAS) European Center is network of Academicians aiming to go over different boundaries and to find join understanding and practical solutions on Grand Challenges. The IEAS – European Center is especially interested in Eurasian environments, including boreal and arctic environments and their large-scale feedbacks and interactions. Our mission is to foster joint efforts towards sustainable development of societies and towards multi- and cross-disciplinary education.

We also address the crucial role of science diplomacy for making impact in different policy making forums. Thus, the IEAS-Europe will act as an interdisciplinary dialog platform involving leading scholars from European countries. IEAS-Europe Academicians are mostly representing atmospheric and environmental sciences with an increasing number of academicians coming from socio-economics and the humanities.

Academician, Professor Markku Kulmala
President of the International Eurasian Academy of Sciences (IEAS) European Center

2. Introduction

IEAS is a public organisation bringing together scientists, scholars and prominent actors in culture, art and social live. It involves over 500 members from 87 countries whose professional interests focus on or relate to modern challenges faced by the humankind in social development, global economy and environment protection. Functioning of IEAS is guided by principles of independence, equal rights, self-governing and legitimacy. Its priorities are: leading research and development focusing on specific problems faced by Eurasian countries.

IEAS initiates and promotes efforts towards solution of vital problems faced by Eurasian countries in the areas of environmental protection, global energy, quality of environment, and social development; promotes initiatives, institutions and groups in solving global problems posed by uncontrolled technological developments; searches for constructive ways towards transition to sustainable development in social, economic and ethical spheres unifying creative potential of science, culture and arts. The core of IEAS' activities comprises international basic-science and applied studies, advancing the content and methodology of supervision, and implementation of new results in practice.

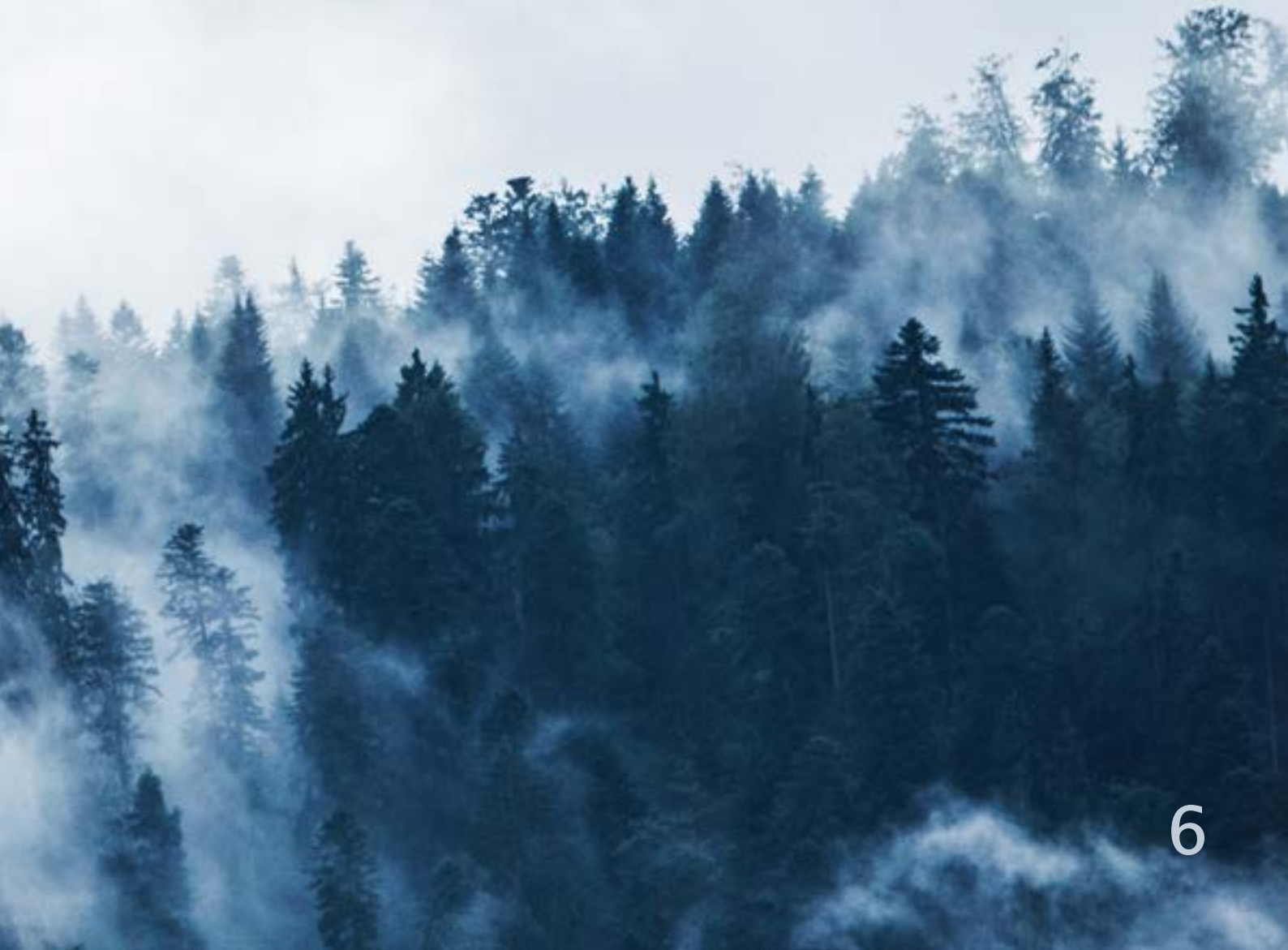
Specific mission of the Europe-Center of IEAS specific mission is to build a bridge between national science programs and international science communities towards coordination of research, development and education in a way beneficial for Northern Eurasia. The Center has become an important instrument for coordination and collaboration, particularly, via research-development-education program Pan-Eurasian Experiment (PEEX) launched in 2013 and involving European countries, Russia, China and Japan.

Major activities

- Continuous comprehensive observations, theory and modelling of air, water and soil pollution and their impact on human health and quality of life
- Methodology and technology of remote sensing environmental observations
- Theory, modelling and forecasting of natural and anthropogenic processes forming the humankind's environment
- Geo-informatics inspired by the environmental Grand Challenges, new knowledge of Earth systems and recent technological developments
- Power-saving and science-intensive technologies

Milestones

1. 1994, Minsk, Belorussia: International Eurasian Academy of Sciences (IEAS) is founded as a bottom-up initiative of scientists from several European and Asian countries
2. 1996, Moscow, Russia: the IEAS General Assembly identifies its mission, main goals and priorities.
3. 1997, Beijing, China: IEAS General Assembly announces the IEAS particularly goals:
   - Facilitating application of energy-efficient and science-driven technologies
   - Designing / implementing new methods and systems for environmental observations
   - Forecasting and preventing dangerous natural and manmade disasters
   - Assessing environmental and human-health risks and damages caused by manmade impacts
4. Since then, IEAS comprises its infrastructure:
   - the IEAS Headquarters (HQ) is based at the location of the IEAS President;
   - Three IEAS Centers, built on the territorial principle:
     Euro-Asian Center in Moscow (Russia);
     Asia-Pacific Center in Beijing (China);
     European Center in Helsinki.
5. 2012, resolution about European Center in Helsinki, hosted by INAR, University of Helsinki, Finland, and chaired by Vice President of IEAS Academician Markku Kulmala



Chairman, Publishing Council of the Bulgarian Academy of Sciences

Alexander H. Alexandrov

Academician of the Bulgarian Academy of Sciences; Academy Professor, Dr., D.Sc
BULGARIA

Date of election: 18 May 1996

Scientific Field

Forestry, Ecology, Forest Genetics, Phytogeography

No. of articles.....491
Total citations.....1,200

Major 5 Publications

1. Penev, N., A. Georgiev, A. Alexandrov, Ch. Garilov, D. Dimitrov. 1982. Formation of high-productive forest stands. Publishing house of BAS, 400 p.
2. Alexandrov, A., G. Rafailov, G. Nedelin, K. Tsanov, B. Bogdanov, S. Spassov. 1988. Coniferous forest in Bulgaria. Zemizdat, 152 p.
3. Alexandrov, A. 1990. Genetics and breeding of forest tree species. Zemizdat, 142 p.
4. Alexandrov, A. 1996, 1988, 2002. Aesculus hipocastanum L.; Pinus peuce Grisb.; Acer heldreichii Orph. - Enzyclopadie der Holzgewachse, 6, 14, 34. Ecomed, Landsberg,
5. Alexandrov, A., R. Dobrev. 2015. The state of forest genetic resources in Bulgaria. Scholar's Press, 85 p.

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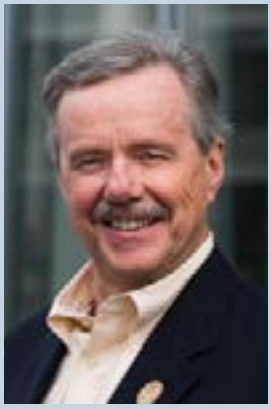

Meinrat O. Andreae

Prof. Dr. h.c.
GERMANY

Date of election: 30 June 2015

Scientific Field
Biogeochemistry and Atmospheric Research

Director Emeritus, Biogeochemistry Department, Max Planck Institute for Chemistry

Researcher ID: B-1068-2008
ORCID ID: 0000-0003-1968-7925

ISI Web of Science 2 June 2020
No. of articles..... 556
H index..... 110
Total citations..... 50,454
No. of Nature and Science papers..... 33

Major 5 Publications

1. Charlson, R. J., Lovelock, J. E., Andreae, M. O., and Warren, S. G., Oceanic phytoplankton, atmospheric sulphur, cloud albedo, and climate: Nature, 326, 655-661, 1987.
2. Rosenfeld, D., Lohmann, U., Raga, G. B., O'Dowd, C. D., Kulmala, M., Fuzzi, S., Reissell, A., and Andreae, M. O., Flood or drought: How do aerosols affect precipitation?: Science, 321, 1309-1313, 2008.
3. Andreae, M. O., Rosenfeld, D., Artaxo, P., Costa, A. A., Frank, G. P., Longo, K. M., and Silva-Dias, M. A. F., Smoking rain clouds over the Amazon: Science, 303, 1337-1342, 2004.
4. Andreae, M. O., and Gelencsér, A., Black carbon or brown carbon? The nature of light-absorbing carbonaceous aerosols: Atmos. Chem. Phys., 6, 3131-3148, 2006.
5. Andreae, M. O., Emission of trace gases and aerosols from biomass burning – an updated assessment: Atmos. Chem. Phys., 19, 8523-8546, doi:10.5194/acp-19-8523-2019, 2019.

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IEAS
EUROPEAN CENTRE

Almut Arneth

Prof. Dr.

GERMANY

Date of election: 23 June 2015

Scientific Field

Land-Atmosphere Interactions

Head of Division Ecosystem-Atmosphere Interactions, Karlsruhe Institute of Technology, Institute of Meteorology and Climate Research Atmospheric Environmental Research (IMK-IFU)

Researcher ID: B-2702-2013
ORCID ID: 0000-0001-6616-0822
ISI Web of Science 27 April 2020
No. of articles..... 206
H index..... 62
Total citations..... 14,979
No. of Nature and Science papers..... 4

Major 5 Publications

1. Brown, C., Alexander, P., Arneth, A., Holman, I. P., Rounsevell, M. Achieving the Paris climate goals is challenged by time lags in the land system. Nature Climate Change, DOI: 10.1038/s41558-019-0400-5
2. Henry, R. C., Alexander, P., Rabin, S., Anthoni, P., Rounsevell, M. D. A., Arneth, A. (2019) The role of global dietary transitions for safeguarding biodiversity. Global Environmental Change-Human and Policy Dimensions, DOI:10.1016/j.gloenvcha.2019.101956
3. Arneth A, et al. (2017) Historical carbon dioxide emissions caused by land-use changes are possibly larger than assumed. Nature Geoscience 10: 79-+. DOI: 10.1038/ngeo2882
4. Arneth A, et al. (2010) Terrestrial biogeochemical feedbacks in the climate system. Nature Geoscience 3: 525-532. DOI: 10.1038/ngeo905
5. Arneth A, Brown C, Rounsevell MDA (2014) Global models of human decision-making for land-based mitigation and adaptation assessment. Nature Climate Change 4: 550-557. DOI: 10.1038/nclimate2250

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EUROPEAN CENTRE

Steven Arnold

Assoc. Prof. Dr.
UNITED KINGDOM

Date of election: 8 November 2017

Scientific Field

Atmospheric Chemistry; Air Quality; Atmospheric Chemistry - Earth System Interactions; Arctic Air Pollution

Associate Professor of Atmospheric Composition, Director of Centre for Environmental Modelling and Computation (CEMAC)

Researcher ID: B-2702-2013
ORCID ID:

ISI Web of Science 19 June 2020
No. of articles..... 79
H index..... 30
Total citations..... 2,622
No. of Nature and Science papers..... 4

Major 5 Publications

1. Schmale, J., Arnold, S. R., Law, K. S., Thorp, T., Anenberg, S., Simpson, W. R., Mao, J., Pratt, K. A., (2018), Local Arctic air pollution: A neglected but serious problem, Earth's Future, 6, DOI:10.1029/2018EF000952.
2. Scott, C. E., Arnold, S.R., Monks, S.A, Asmi, A., Paasonen, P., Spracklen, D.V., (2017), Substantial large-scale feedbacks between natural aerosols and climate, Nature Geosci., DOI:10.1038/s41561-017-0020-5.
3. Arnold, S. R., Emmons, L. K., Monks, S. A., et al., (2015), Biomass burning influence on high-latitude tropospheric ozone and reactive nitrogen in summer 2008: a multi-model analysis based on POLMIP simulations, Atmos. Chem. Phys., 15, 6047-6068, DOI:10.5194/acp-15-6047-2015.
4. Spracklen, D.V., S.R. Arnold and C.M. Taylor, (2012), Observations of increased tropical rainfall preceded by air passage over forests, Nature, 489, 282-285, doi:10.1038/nature11390.
5. Arnold, S.R., D. V. Spracklen, J. Williams, et al., (2009), Evaluation of the global oceanic isoprene source and its impacts on marine organic carbon aerosolAtmos. Chem. Phys., 9, 1253-1262.

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EUROPEAN CENTRE

Irina M. Artemieva

Prof. Dr.
DENMARK

Date of election: 14 September 2017

Scientific Field

Solid Earth Geophysics and Geodynamics

University of Copenhagen, Department of Geosciences and Natural Resources Management (IGN)

Researcher ID: C-2106-2013
ORCID ID:

ISI Web of Science 27 April 2020
No. of articles..... 69
H index..... 23
Total citations..... 2,351
No. of Nature and Science papers.....

Major 5 Publications

1. Artemieva IM, Shulgin A: Geodynamics of Anatolia: Lithosphere Thermal Structure and Thickness, TECTONICS, 38, 12, 4465-4487, DOI: 10.1029/2019TC005594, 2019
2. Teknik V, Ghods A, Thybo H, Artemieva IM: Crustal density structure of the northwestern Iranian Plateau, CANADIAN JOURNAL OF EARTH SCIENCES, 56, 12, SI: 1347-1365, DOI: 10.1139/cjes-2018-0232, 2019
3. Thybo H, Youssof M, Artemieva IM: Southern Africa crustal anisotropy reveals coupled crust-mantle evolution for over 2 billion years, NATURE COMMUNICATIONS, 10, 5445, DOI: 10.1038/s41467-019-13267-2, 2019
4. Shulgin A, Artemieva IM: Thermochemical Heterogeneity and Density of Continental and Oceanic Upper Mantle in the European-North Atlantic Region, JOURNAL OF GEOPHYSICAL RESEARCH-SOLID EARTH , 124, 8, 9280-9312, DOI: 10.1029/2018JB017025 2019
5. Artemieva IM, Shulgin A: Making and altering the crust: A global perspective on crustal structure and evolution, EARTH AND PLANETARY SCIENCE LETTERS, 512, 8-16, DOI: 10.1016/j.epsl.2019.01.033, 2019

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EUROPEAN CENTRE

Jaana Bäck

Prof. Dr.

FINLAND

Institute of Atmospheric and Earth System Research (INAR) at the University of Helsinki

Date of election: 11 April 2019

Scientific Field

Ecosystem Atmosphere Interactions

Researcher ID: A-7405-2010
ORCID ID: 0000-0002-6107-667X

ISI Web of Science 15 May 2020
No. of articles..... 108
H index..... 27
Total citations..... 2,991
No. of Nature and Science papers..... 1

Major 5 Publications

1. Kourtchev I, Giorio C, Manninen A, et al: Warmer climate enhances oligomer content in ambient organic aerosol and CCN concentration. - Scientific Reports 6, 35038, DOI:10.1038/srep35038, 2016
2. Macháčová K, Bäck J, Vanhatalo A, et al: Pinus sylvestris as missing source of methane and nitrous oxide in boreal upland forest. - Scientific Reports 6:23410, DOI:10.1038/srep23410, 2016
3. Hari P, Petäjä T, Bäck, J, et al: Conceptual design of a measurement network of the global change. - Atmos. Chem. Phys., 16, 1017–1028, DOI:10.5194/acp-16-1017-2016, 2016
4. Aalto J, Kolari P, Hari P, et al: New foliage growth is a significant, unaccounted source for volatiles in boreal evergreen forests. - Biogeosciences 11: 1331-1344, 2014
5. Kulmala M, Kontkanen J, Junninen H, et al: Direct observations of atmospheric nucleation. – Science 339, 943-946, DOI: 10.1126/science.1227385, 2013

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EUROPEAN CENTRE

Alexander Baklanov

Professor, Dr. Sci., PhD

SWITZERLAND/DENMARK/RUSSIA

Date of election: 15 November 2017

Scientific Field

Environmental Science, Meteorology, Atmospheric Physics, Urban Geosciences, Climate Change, Risk Assessment, Mathematical Modelling, Sustainable Development

Researcher ID:
ORCID ID: 0000-0002-5396-8440

GoogleScholar / ResearchGate (20 May 2020)
No. of articles..... 147 /
H index..... 45 / 40
Total citations..... 8,407 / 6,690
i10-index..... 135
No. of Nature and Science papers.....

Major 5 Publications

1. Baklanov, A., C.S.B. Grimmond, D. Carlson, et al., 2018: From urban meteorology, climate and environment research to integrated city services. Urban Climate, 23 330–341, DOI:10.1016/j.uclim.2017.05.004.
2. Baklanov, A., D. Brunner, G. Carmichael, et al., 2018: Key issues for seamless integrated chemistry-meteorology modeling. Bull. Amer. Meteor. Soc. DOI:10.1175/BAMS-D-15-00166.1.
3. Baklanov, A., Korsholm, U. S., Nuterman, R., et al., 2017: The Enviro-HIRLAM online integrated meteorology–chemistry modelling system: strategy, methodology, developments, and applications (v. 7.2), Geosci. Model Dev., 10, 2971-2999, DOI:10.5194/gmd-10-2971-2017.
4. Baklanov, A., L.T. Molina, M. Gauss, 2016: Megacities, air quality and climate. Atmospheric Environment, 126: 235–249. DOI:10.1016/j.atmosenv.2015.11.059
5. Baklanov, A., Schlünzen, K., Suppan, P., et al. , 2014: Online coupled regional meteorology chemistry models in Europe: current status and prospects, Atmos. Chem. Phys. 14, 317-398, DOI:10.5194/acp-14-317-2014

Scientific Officer of Science and Innovation Department, World Meteorological Organization (WMO)
Affiliated Professor, Niels Bohr Institute of the University of Copenhagen
Editor-in-chief of Urban Climate journal

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IEAS
EUROPEAN CENTRE

Jerzy Bartminski

Professor
POLAND

Date of election: 1994

Scientific Field
Slavic Ethnolinguistics

Prof. Emeritus,
Maria Curie Sklodowska University (UMCS)/
Instytut Slawistyki PAN

Researcher ID:
ORCID ID:

ISI Web of Science 3 June 2020
No. of articles..... 520
H index..... 34
Total citations..... 4612
No. of Nature and Science papers..... 12

Major 5 Publications

1. Bartminski J: Jazykovoj obraz mira: očerki po etnolingvistike 2005;
2. Stereotypy mieszkają w języku. Studia etnolingwistyczne 2007; Językowe podstawy obrazu świata" 2006;
3. Aspects of Cognitive Ethnolinguistics, London 2009;
4. Tekstologia 2009 (wspólnie z Stanisławą Niebrzegowską-Bartmińską];
5. Jezik – slika – svet. Etnolingvističke studije, Beograd 2011; Jazyk v kontextu kultury, Praha 2016

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EUROPEAN CENTRE

Ekaterina Batchvarova

Prof. Dr. Corresponding member of Bulgarian Academy of Sciences

Date of election: 15 November 2017

Scientific Field

Atmospheric research

The National Institute of Meteorology and Hydrology, Bulgarian Academy of Sciences

Researcher ID: L-4304-2016
ORCID ID:

ISI Web of Science 9 June 2020
No. of articles..... 82
H index..... 21
Total citations..... 1162
No. of Nature and Science papers.....

Major 5 Publications

1. Batchvarova E,; Gryning SE: Applied-model for the growth of the daytime mixed layer, Boundary-Layer Meteorology, 56, 3, 261-274, DOI: 10.1007/bf00120423, 1991
2. Gryning SE, Batchvarova E: Analytical model for the growth of the coastal internal boundary-layer during onshore flow, Quarterly Journal of the Royal Meteorological Society, 116, 491, 187-203, part: A, 1990
3. Batchvarova E, Gryning SE: An applied-model for the height of the daytime mixed-layer and the entrainment zone, Boundary-Layer Meteorology, 71, 3, 311-323, DOI: 10.1007/bf00713744, 1994
4. Gryning SE, Batchvarova E, Brummer B, Jorgensen H, Larsen S: On the extension of the wind profile over homogeneous terrain beyond the surface boundary layer, Boundary-Layer Meteorology, 124, 2, 251-268, DOI: 10.1007/s10546-007-9166-9, 2007
5. Rotach MW, Vogt R, Bernhoffer C, Batchvarova E, et al: Bubble - an urban boundary layer meteorology project, Theoretical and Applied Climatology, 81, 3-4, 231-261, DOI: 10.1007/s00704-004-0117-9, 2005

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EUROPEAN CENTRE

Robert Bornstein

Prof. Dr.

USA

Date of election: 2014

Scientific Field

Urban Climate and Air Quality

Professor Emeritus of Meteorology and Climate Sciences
San Jose State University

Researcher ID:
ORCID ID: 0000-0002-6989-7528

ISI Web of Science 27 April 2020
No. of articles.....
H index..... 28
Total citations..... 4235
No. of Nature and Science papers.....

Major 5 Publications

1. Liang XS, Miao S, Li J, Bornstein R, et al: SURF: understanding and modeling urban convection and haze. BAMS, 99, 1391-1413, 2018.
2. Chen F, Kusaka H, Bornstein R, et al: The integrated WRF/urban modelling system: development, evaluation, and applications to urban environmental problems, International Journal of Climatology 31 (2), 273-288, 2011
3. Bornstein R: Observations of the urban heat island effect in New York City, Journal of Applied Meteorology 7 (4), 575-582, 1968
4. Bornstein R, Lin Q: Urban heat islands and summertime convective thunderstorms in Atlanta: three case studies, Atmospheric Environment 34 (3), 507-516, 2000
5. Bornstein R: The two-dimensional URBMET urban boundary layer model, Journal of Applied Meteorology 14 (8), 1459-1477, 1975

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EUROPEAN CENTRE

François Bouillé

Prof. Dr.
FRANCE

Date of election:

Scientific Field

Professor Emeritus,
Sorbonne-Université P.& M.Curie

Researcher ID:
ORCID ID:
ISI Web of Science 8 June 2020
No. of articles.....
H index.....
Total citations.....
No. of Nature and Science papers.....

Major 5 Publications

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EUROPEAN CENTRE

Ilia Dimitrov Christov

Academician of New York Academy of Sciences
BULGARIA

Date of election: 18 May 1996

Scientific Field

Agroecology, Ecology, Plant Biophysics, Soil Physics, Nuclear Methods in Soil Science

Professor Emeritus,
Poushkarov Institute
for Soil Science,
Agrotechnology and Plant
Protection

Researcher ID:
ORCID ID:

ISI Web of Science
No. of articles..... 223
H index.....
Total citations..... 378
No. of Nature and
Science papers.....

Major 5 Publications

1. Christov ID: Fundamental Ideas in Development of Ecology and Biophysics, ECOLOGICAL ENGINEERING AND ENVIRONMENT PROTECTION, 18 (4), 25-29, Sofia, 2019
2. Christov ID: Influence of Water and Nutritional Status of Soil on Quantity and Quality of Crop Production, JOURNAL OF THE BULGARIAN ACADEMY OF SCIENCES, 6, 51-56, Sofia, 2019
3. Christov ID: State of Science and Practice on Management of Agroecosystem Water Status, JOURNAL OF BALKAN ECOLOGY, 22 (3), 229-239, 2019
4. Christov ID: Management of Agroecosystem Water Status. Part 1. New Complex Scientific Base, JOURNAL OF BALKAN ECOLOGY, 11(1), 5-22, 2008
5. Christov ID: Energy Levels of Soil Moisture and Biolproductivity. – International Agricultural Physics, 6 (1-2), 89-94, 1992.

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EUROPEAN CENTRE

George Djolov†

Prof. Dr.

SOUTH AFRICA

†Deceased

Date of election: 25 April 2015

Unit of Environmental Science and Management, North-West University

Prof. George Djolov has been internationally recognized scholar with major contributions to the theory, observations and modelling of planetary boundary layers, air pollution and climate change. During his career, he strongly contributed to establishing and leading new scientific and educational institutions, units or programs. He has founded and acted as first director of the Institute of Ecology at the Bulgarian Academy of Sciences; has established the Bachelor of Technology Program in Applied Physics at the University of Zimbabwe; has been Dean of the School of Mathematics and Natural Sciences, Professor and Director of the Faculty of Physical and Mineral Sciences at the North-West University in South Africa.

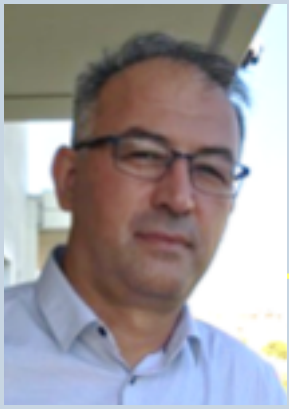
Thanks to his broad knowledge in science and his management skills, he has served for 2 years as CEO of the National Community Water and Sanitation Training Institute in South Africa. He has been elected and during 5 years functioned as President of the World Committee on Engineering and Environment of the World Federation of Engineering Organizations (WFEO).

His world-class knowledge in atmospheric and environmental sciences was highly appreciated. So, he was member of Editorial Boards of such journals as “Climate Change” and, for 25 years, “Boundary Layer Meteorology”.

Professor Djolov has published 5 books and over hundred papers in international and national scientific journals, and has made numerous presentations at international conferences.

The list of his postgraduate students, including many persons from South Africa, was so large that he did not remember some of them. The evidence of his successful leading of scientific and educational projects is total sum of his grants exceeding 20 million rand. Besides, he has led social projects important for developing education and improving living standards of underprivileged people.

IEAS
EUROPEAN CENTRE



Konstantinos Eleftheriadis

Dr.
GREECE

Director of Research, NCSR Demokritos Environmental Radioactivity Lab (Head), Institute of Nuclear & Radiological Sciences & Technology, Energy & Safety

Date of election: 28 June 2015

Scientific Field

Atmospheric Research

Researcher ID: G-2814-2011
ORCID ID: 0000-0003-2265-4905

ISI Web of Science 04 May 2020
No. of articles..... 136
H index..... 33
Total citations..... 3,107
No. of Nature and Science papers.....

Major 5 Publications

1. Eleftheriadis K, Vratolis S, Nyeki S: Aerosol black carbon in the European Arctic: Measurements at Zeppelin station, Ny-Alesund, Svalbard from 1998-2007, GEOPHYSICAL RESEARCH LETTERS, 36, DOI: 10.1029/2008GL035741, 2009
2. Karanasiou A, Siskos P, Eleftheriadis K: Assessment of source apportionment by Positive Matrix Factorization analysis on fine and coarse urban aerosol size fractions, ATMOSPHERIC ENVIRONMENT, 43, 3385-3395, DOI: 10.1016/j.atmosenv.2009.03.051, 2009
3. Eleftheriadis K, Ochsenkuhn K, Lymperopoulou Y, et al: Influence of Local and Regional Sources on the Observed Spatial and Temporal Variability of Size Resolved Atmospheric Aerosol Mass Concentrations and Water-Soluble Species in the Athens Metropolitan Area, ATMOSPHERIC ENVIRONMENT, 97, 252-261. DOI:10.1016/j.atmosenv.2014.08.013
4. Eleftheriadis K: Long-term variability of the air pollution sources reflected on the state of mixing of the urban aerosol, CURRENT OPINION IN ENVIRONMENTAL SCIENCE AND HEALTH, 8, 36-39,DOI: 10.1016/j.coesh.2019.04.001, 2019
5. Giamarelou M, Eleftheriadis K, Nyeki S, et al: Indirect Evidence of the Composition of Nucleation Mode Atmospheric Particles in the High Arctic, JOURNAL OF GEOPHYSICAL RESEARCH: ATMOSPHERES 121 (2), 965-975, DOI:10.1002/2015JD023646, 2016

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EUROPEAN CENTRE

Tov Elperin†

Prof. Dr.
ISRAEL

†Deceased

Date of election: 7 May 2015

Ben-Gurion University of the Negev, Department of Mechanical Engineering

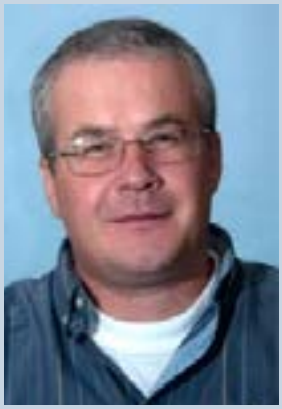
Professor Tov Elperin (1949-2018) was born in Minsk (Soviet Union, now Belarus); graduated from Department of Physics, Minsk University; and got PhD at the Department of Physics of the Ben-Gurion University of the Negev in Israel. At the beginning of his research career, he has been working at Cornell University, USA, with Professor S.B. Pope, famous for his research in turbulence. Since 1984 he was the faculty member at the Ben-Gurion University of the Negev and, in recent decades, the head of Laboratory of Turbulent Multiscale Flows at the Department of Mechanical Engineering. He has been an internationally recognized expert in physics of turbulence, turbulent diffusion, boundary layers, aerosols, aerosol-cloud interaction, shock waves and high-speed penetration dynamics. He has published 4 books and over 300 peer-reviewed papers in international scientific journals, and presented his results at numerous international conferences. In collaboration with Professors Nathan Kleeorin and Igor Rogachevskii, he has discovered the following new physical phenomena: turbulent thermal diffusion of particles; small-scale clustering of particles in both non-stratified and stratified turbulence – phenomenon playing key role in turbulent transport, transformations of atmospheric aerosols and water droplets and, thus, in precipitation; the effect of chemical reactions on turbulent transport of particles and gases, particularly in the atmosphere where reactions could reduce turbulent diffusion of aerosol particles.

Professor Elperin was one of the key participants of cooperative work on the energetics and closure theory of stably-stratified turbulence initiated by Professor Sergej Zilitinkevich and involved Finish Meteorological Institute, University of Helsinki (Finland), Ben Gurion University of the Negev (Israel) and Nansen Environmental and Remote Sensing Centre (Norway). This work, continued for the last two decades, has yielded principal revision of the very concept and theory of the stably-stratified high-Reynolds-number turbulence inherent in atmospheric, hydrospheric and astrophysical fluid flows.

Thanks to his outstanding management skills and deep knowledge of turbulence, Professor Elperin has played the key role in foundation of the Laboratory of Turbulent Multiscale flows at the Ben-Gurion University of the Negev, and over the last decades have been leading comprehensive experimental investigations of turbulence at the Laboratory.

He has established several interdisciplinary bachelor and masters programs together with Engineering and Physics Departments of the Ben Gurion University. Thanks to his broad knowledge in both science and culture, he was an outstanding lecturer and highly appreciated supervisor of numerous Master and PhD programs.

IEAS EUROPEAN CENTRE



Senior Researcher at the Nansen Environmental and Remote Sensing Center (NERSC)

Igor Esau

Prof. Dr.

NORWAY

Date of election: 25 June 2012

Scientific Field

Atmospheric Sciences, Climatology, Turbulence Modelling, Computational Fluid Dynamics, Urban Sciences, Air Quality, Socio-Environmental Interactions

Researcher ID: C-6298-2008
ORCID ID: 0000-0003-4122-6340

ISI Web of Science 25 May 2020
No. of articles..... 65
H index..... 21
Total citations..... 1,776
No. of Nature and Science papers..... 1

Major 5 Publications

1. Davy, R., Esau, I., 2016: Differences in the efficacy of climate forcings explained by variations in atmospheric boundary layer depth, NATURE COMMUNICATIONS, 7, 11690, doi:10.1038/ncomms11690
2. Wolf T, Pettersson L, Esau I: A very high-resolution assessment and modelling of urban air quality, ATMOSPHERIC CHEMISTRY AND PHYSICS , 20, 2, 625-647, DOI:10.5194/acp-20-625-2020, 2020
3. Outten, S., and Esau, I., 2017: Bjerknes Compensation in the Bergen Climate Model, CLIMATE DYNAMICS, 49(7-8), 2249–2260, doi: 10.1007/s00382-016-3447-2
4. Smedsrud L.H., I. N. Esau, R. B. Ingvaldsen, T. Eldevik, P. M. Haugan, C. Li, V. Lien, A. Olsen, A. Omar, O.H. Otterå, B. Risebrobakken, A.B. Sandø, V. Semenov and S.A. Sorokina, 2013: The role of the Barents Sea in the Arctic climate system, REVIEWS OF GEOPHYSICS, 51, doi:10.1002/rog.20017, pp1-35
5. Esau, I., R. Davy, S. Outten, S. Tyuryakov and S. Zilitinkevich, 2013: Structuring of turbulence and its impact on basic features of Ekman boundary layers, NONLINEAR PROCESSES IN GEOPHYSICS, 20, 589-604, doi:10.5194/npg-20-589-2013

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EUROPEAN CENTRE

Harindra Joseph S. Fernando

Prof. Dr.

USA

Date of election: 14 September 2017

Scientific Field

Environmental and Geophysical Fluid Dynamic

University of Notre Dame, Department of Civil & Environmental Engineering & Earth Sciences

Researcher ID: N-5339-2014
ORCID ID: 0000-0002-9638-0698

ISI Web of Science 17 June 2020
No. of articles..... 315
H index..... 40
Total citations..... 6,011
No. of Nature and Science papers..... 1

Major 5 Publications

1. Fernando, H.J.S., Mann, J., Laginha Mestre da Palma, et al., The Perdigão: Peering into Microscale Details of Mountain Winds, Bulletin American Meteorological Society, 100(5), 799-819, 2019. DOI: 10.1175/BAMS-D-17-0227.1
2. Zhong, Q., Hussain, F. and Fernando, H.J.S., Quantification of Turbulent Mixing in Colliding Gravity Currents, Journal of Fluid Mechanics, 851, 125-147, 2018. DOI: 10.1017/jfm.2018.488
3. Sharma, A., Conry, P., Fernando, H., Hamlet, A., Hellman, J., and Chen, F., Green and Cool Roofs to Mitigate Urban Heat Island Effects in Chicago Metropolitan Area: Evaluation with a Regional Climate Model," Environmental Research Letters, 11, 064004, 2016, DOI:10.1088/1748-9326/11/6/064004.
4. Lozovatsky, I., Wijesekera, H., Jaroz, E., Lilover, M-J., Pirro, A., Silver, Z., Centurioni, L., and Fernando, H.J.S., A Snapshot of Internal Waves and Hydrodynamic Instabilities in the Southern Bay of Bengal, Journal of Geophysical Research (Oceans), 121, 5898–5915, DOI:10.1002/2016JC011697
5. Fernando, H. J. S., E. R. Pardyjak, S. Di Sabatino, et al., Bulletin of the American Meteorological Society, 96 (11), 1945-1967, 2015. DOI:10.1175/BAMS-D-13-00131.1

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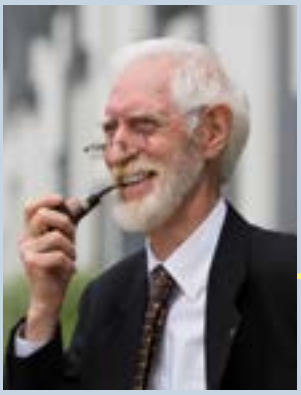
EUROPEAN CENTRE



Manfred M. Fischer

Fellow of the Regional Science Association International, Royal Netherlands Academy of Arts and Sciences, Austrian Academy of Sciences

AUSTRIA

Date of election: 27 May 1995

Scientific Field

Regional Science, Spatial Economics, Urban and Regional Economics, Economic Geography, Spatial Econometrics, Spatial Data Analysis

Emeritus Professor in Economic Geography, Vienna University of Economics and Business

Researcher ID: G-5960-2017
ORCID ID: 0000-0002-0033-2510

GoogleScholar 2 June 2020
No. of articles.....
H index..... 51
Total citations..... 11,176
i10-index..... 139
No. of Nature and Science papers.....

Major 5 Publications

1. LeSage JP, Fischer MM: Cross-sectional dependence model specifications in a static trade panel data setting, JOURNAL OF GEOGRAPHICAL SYSTEMS, 22, 1, 5-46, DOI: 10.1007/s10109-019-00298-y, 2020
2. Fischer MM, Huber F, Pfarrhofer M, Staufer-Steinnocher P: The dynamic impact of monetary policy on regional housing prices in the United States, REAL ESTATE ECONOMICS, DOI:10.1111/1540-6229.12274, 2019
3. Huber F, Fischer MM: A Markov switching factor-augmented VAR model for analyzing US business cycles and monetary policy, OXFORD BULLETIN OF ECONOMICS AND STATISTICS, 80, 3, 575-604, DOI: 10.1111/obes.12227, 2018
4. LeSage JP, Fischer MM: Spatial growth regressions: Model specification, estimation and interpretation, SPATIAL ECONOMIC ANALYSIS, DOI: 10.2139/ssrn.980965, 2008
5. Leung Y, Fischer MM, Wu W-Z, Mi J-S: A rough set approach for the discovery of classification rules in interval-valued information systems, INTERNATIONAL JOURNAL OF APPROXIMATE REASONING, 47, 2, 233-246, DOI: 10.1016/j.ijar.2007.05.001, 2008

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IEAS
EUROPEAN CENTRE

David G. Gee

Prof. Dr.

SWEDEN

University of Uppsala,
Department of Earth Sciences

Date of election: 21 November 2017

Scientific Field

Orogen dynamics

Researcher ID:
ORCID ID:

ISI Web of Science 07 May 2020
No. of articles.....
H index.....
Total citations.....5,486
No. of Nature and
Science papers.....

Major 5 Publications

1. Gee, D.G. & Sturt, B.A. (eds) 1985. The Caledonide Orogen–Scandinavia and Related Areas. John Wiley and Sons, Chichester, UK. 1266 pp.
2. Gee, D.G. & Pease, V. (eds) 2004. The Neoproterozoic Timanide Orogen of Eastern Baltica. Geological Society, London, Memoir 30, 255 pp.
3. Gee D.G. & Stephenson (eds) 2006, European Lithosphere Dynamics. Geological Society, London, Memoir 32, 662 pp.
4. Gee, D.G. & Ladenberger, A (Eds) 2008. Earth System Science: Foundation for Sustainable Development. Episodes, 31 (1), 200 pp.
5. Stephens M.B. & Bergman Weihed, J. (eds) 2020. Sweden: Lithotectonic Framework, Tectonic Evolution and Mineral Resources. Geological Society, London, Memoir 50, Four chapters summerizing the Swedish (and Scandinavian) Caledonides

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EUROPEAN CENTRE

Petar Getsov

Corr. member of Bulgarian Academy of Sciences, Academician of Russian Academy for Cosmonautics, Member of New York Academy of Sciences, Chairman of Bulgarian Astronautical Federation, Academy Professor

BULGARIA

Corr. Member,Prof. DSc.-Bulgarian Academy of Sciences,Director of Space Research and Technology Institute-BAS (1996 -2018), Now:Chief of Aerospace control systems department, Chairmen of Science Council of Space Research Institute – BAS

Date of election: 17 May 2013

Scientific Field

Aerospace Control Systems, Avionics, Research & Development , Project management

Researcher ID:
ORCID ID:

ISI Web of Science 3 June 2020
No. of articles..... 290
H index.....32
Total citations.....260
No. of Nature and Science papers.....15

Major 5 Publications

1. Getsov P, Yanev R, Bo W: Hybrid Propulsion Of Multi-Copter Type Uavs, Feasibility And Current State Of The Art, AEROSPACE RESEARCH IN BULGARIA, 30, 123-133, DOI: 10.3897/arb.v30.e10, 2018
2. Getsov P, Jordanov D, Bo W: Modeling of the catastrofic version of a transport airplane, AEROSPACE RESEARCH IN BULGARIA, 30, 155-162, DOI: 10.3897/arb.v30.e13, 2018
3. Getsov P, Bo W, Jordanov D: Modeling trajectories for patrolling and observation with unmanned air vehicles, COMPTES RENDUS DE L ACADEMIE BULGARE DES SCIENCES, 71, 10, 1374-1379, DOI: 10.7546/CRABS.2018.10.11, 2018
4. Bo W, Getsov P, Zabunov S, et al: Tandem helicopter and other award winning unmanned aerial vehicle inventions COMPTES RENDUS DE L ACADEMIE BULGARE DES SCIENCES, 71, 4, 529-534, DOI: 10.7546/CRABS.2018.04.12, 2018
5. Getsov P, Bo W, Zafirov, D, et al: An unmanned aerial surveillance system in urban environments, AEROSPACE RESEARCH IN BULGARIA, 29, 94-110, 2017

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http://space.bas.bg/en/structure/sc.html

getsovp@space.bas.bg
Tel: +359 888418160

EUROPEAN CENTRE

Michael Ghil

Prof. Dr.

FRANCE

Date of election: 21 September 2017

Scientific Field

Climate Sciences

Ecole Normale Supérieure, Paris
Distinguished Professor (emeritus)
University of California at Los Angeles
Distinguished Research Professor

Researcher ID: O-1433-2019
ORCID ID: 0000-0001-5177-7133

ISI Web of Science 8 May 2020
No. of articles..... 298
H index..... 59
Total citations..... 14,843
No. of Nature and Science papers..... 5

Major 5 Publications

1. Ghil M and R. Vautard: Interdecadal oscillations and the warming trend in global temperature time series, Nature, 350, 324–327
2. Ghil, M., and P. Malanotte-Rizzoli, 1991: Data assimilation in meteorology and oceanography, Adv. Geophys., 33, 141–266
3. Ghil, M.: A century of nonlinearity in the geosciences, Earth & Space Science, 6, 7, 1007–1042, DOI: 10.1029/2019EA000599, 2019
4. Ghil, M., et al., 2002: Advanced spectral methods for climatic time series, Rev. Geophys., 40(1), pp. 3.1–3.41, DOI:10.1029/2000RG000092
5. Ghil, M., and V. Lucarini, 2020: The physics of climate variability and climate change, Rev. Mod. Phys., in press, arXiv:1910.00583.

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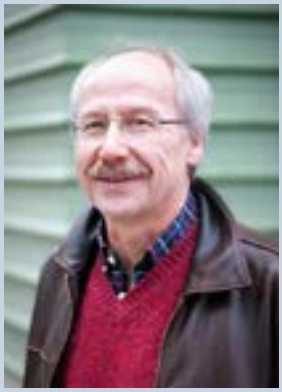
Ecole Normale Supérieure, 75231 Paris Cedex 05
https://dept.atmos.ucla.edu/tcd/people/michael-ghil

EUROPEAN CENTRE



Hans-Christen Hansson

Prof. Dr.

SWEDEN

Date of election: 4 December 2017

Scientific Field

Atmospheric Science

Professor,
Department of Environmental Science and Analytical Chemistry, Stockholm University

Researcher ID:
ORCID ID:

ISI Web of Science 8 May 2020
No. of articles..... 175
H index..... 49
Total citations..... 9,127
No. of Nature and Science papers..... 5

Major 5 Publications

1. Sand M, Berntsen TK, Ekman AML, et al: Surface temperature response to regional black carbon emissions: do location and magnitude matter? ATMOSPHERIC CHEMISTRY AND PHYSICS, 20, 5, 3079-3089, DOI: 10.5194/acp-20-3079-2020, 2020
2. Lewinschal A, Ekman AML, Hansson HC, et al: Local and remote temperature response of regional SO2 emissions, ATMOSPHERIC CHEMISTRY AND PHYSICS, 19, 4, 2385-2403, DOI: 10.5194/acp-19-2385-2019, 2019
3. Acosta Navarro J, Ekman AML, Pausata FRS, Lewinschal A, Varma V, Seland Ø, Gauss M, Iversen T, Kirkevåg A, Riipinen I, Hansson HC: Future Response of Temperature and Precipitation to Reduced Aerosol Emissions as Compared with Increased Greenhouse Gas Concentrations, J. Climate, 30 (3): 939–954, DOI:10.1175/JCLI-D-16-0466.1, 2017
4. Acosta Navarro J, Varma V, Riipinen I, Seland Ø, Kirkevåg A, Struthers H, Iversen T, Hansson HC, & EkmanAML: Amplification of Arctic warming by past air pollution reductions in Europe, Nature Geoscience, 9, 277–281, DOI:10.1038/ngeo2673, 2016
5. Dall'Osto M, Beddows DCS, Asmi A, et al: Novel insights on new particle formation derived from a pan-european observing system, SCIENTIFIC REPORTS, 8, 1482, DOI: 10.1038/s41598-017-17343-9, 2018

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EUROPEAN CENTRE

Director Emeritus ,
Max-Planck-Institute for Biogeochemistry

Martin Heimann

Prof. Dr.

GERMANY

Date of election: 8 July 2015

Scientific Field

Biogeochemistry, global carbon cycle, atmospheric greenhouse gases, carbon cycle - climate interactions, Arctic biogeochemistry

Researcher ID: H-7807-2016
ORCID ID: 0000-0001-6296-5113

ISI Web of Science 11 May 2020
No. of articles..... 269
H index..... 77
Total citations..... 21,570
No. of Nature and Science papers..... 20

Major 5 Publications

1. Knox SH, Jackson RB, Poulter B, et. al: FLUXNET-CH4 Synthesis Activity: Objectives, Observations, and Future Directions, BULLETIN OF THE AMERICAN METEOROLOGICAL SOCIETY, 100, 12, 2607-2632, DOI: 10.1175/BAMS-D-18-0268.1, 2019
2. Reum F, Gockede M, Lavric JV, et. al: Accurate measurements of atmospheric carbon dioxide and methane mole fractions at the Siberian coastal site Ambarchik, ATMOSPHERIC MEASUREMENT TECHNIQUES, 12, 11, 5717-5740, DOI: 10.5194/amt-12-5717-2019, 2019
3. Morgan EJ, Lavric JV, Arevalo-Martinez DL, et. al: Air-sea fluxes of greenhouse gases and oxygen in the northern Benguela Current region during upwelling events, BIOGEOSCIENCES, 16, 20, 4065-4084, DOI: 10.5194/bg-16-4065-2019, 2019
4. Makela J, Knauer J, Aurela M, et. al: Parameter calibration and stomatal conductance formulation comparison for boreal forests with adaptive population importance sampler in the land surface model JSBACH, GEOSCIENTIFIC MODEL DEVELOPMENT, 12, 9, 4075-4098, DOI: 10.5194/gmd-12-4075-2019, 2019
5. Zhu P, Zhuang QL, Welp L, et. al: Recent Warming Has Resulted in Smaller Gains in Net Carbon Uptake in Northern High Latitudes, JOURNAL OF CLIMATE, 32, 18, 5849-5863, DOI: 10.1175/JCLI-D-18-0653.1, 2019

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Tel: +49 364 157 6350

EUROPEAN CENTRE

Albert A. M. Holtslag

Fellow American Meteorological Society
NETHERLANDS

Date of election: 18 May 2015

Scientific Field

Meteorology and Climate Studies, Boundary Layer Meteorology, Land-Atmosphere Interactions, Urban Meteorology, Wind Energy

Emeritus Professor of Meteorology, Wageningen University

President of European Meteorological Society (Sept 2020-Sept 2023)

Researcher ID: B-7842-2010
ORCID ID: 0000-0003-0995-2481

ISI Web of Science/GoogleScholar 4 June 2020
No. of articles..... 169
H index..... 50 / 65
Total citations..... 10,241 / 21,235
i10-index..... 174
No. of Nature and Science papers.....

Major 5 Publications

1. AAM Holtslag, G Svensson, P Baas, S Basu, B Beare, ACM Beljaars et al., 2013: Stable atmospheric boundary layers and diurnal cycles - Challenges for weather and climate models. Bulletin of the American Meteorological Society 94 (11), 1691-1706.
2. RJ Ronda, GJ Steeneveld, BG Heusinkveld, JJ Attema, AAM Holtslag, 2017: Urban finescale forecasting reveals weather conditions with unprecedented detail. Bulletin of the American Meteorological Society 98 (12), 2675-2688.
3. AM Droste, GJ Steeneveld, AAM Holtslag, 2018: Introducing the urban wind island effect. Environmental research letters 13 (9), 094007.
4. Kalverla PC, Holtslag AAM, Ronda RJ, Steeneveld GJ, 2020: Quality of wind characteristics in recent wind atlases over the North Sea, Quarterly Journal of the Royal Meteorological Society 146 (728), 1498-1515, DOI: 10.1002/qj.3748
5. Manola I, GJ Steeneveld, R Uijlenhoet, AAM Holtslag, 2020: Analysis of urban rainfall from hourly to seasonal scales using high-resolution radar observations in the Netherlands. International Journal of Climatology 40 (2), 822-840

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IEAS
EUROPEAN CENTRE

Frank Hoffmann

Chairman KDT "Automation Cartographic Processes" (GDR), Member of National Committee "Geography&Cartography" (GDR), Corresponding Member of ICA "Automation in Cartography" (GDR), Expert at BOWGIS "Education Center East-West" Dresden (BRD), External Expert at EU Commission CT-EX2002B050267-103 (EC)

GERMANY

Date of election: 18 May 1996

HS-Dozent (Associate. prof.) Dr. Ing.

TU Dresden, Section Geodesy & Cartography;

Moscow State University of Geodesy and Cartography;

Ukrainian State University / Faculty Geography, Kiev

IGN e.V. Dresden - CEO - Retired -

Scientific Field

Topographic & Thematic & Planning Cartography, Cadastre, Surveying & Mapping, Topography, Photogrammetry, Cartomatics, Geomatics, Enviro & GeoInformation Sciences

Researcher ID: n/a
ORCID ID:
No. of articles..... 171
No. of RDT papers.... 42

As Examples: Supervising and managing R&D Projects
at TU Dresden in cooperation with VVB "Erdöl/Erdgas" Gommern, FLS "Territorialplanning" Berlin, TREUHAND (RealEstate) Berlin,, MKD (MilCartoService) Halle, MTD (MilTopoService) Prenzlau, CVUT

Major 5 Publications

1. Hoffmann F.: Automatisierung Kartographischer Prozesse. In: Ogrissek [Ed.] "Brockhaus abc Kartenkunde", Leipzig: 1983, 632pp.
2. Hoffmann F.: Automated Construction of cartographic design by digital setter DIGISET-400. In: "Modern techniques of maps compilation", Kirschbaum Verlag, Bonn: 1991, pp. 199-214
3. Hoffmann F.: Computer assisted communication & computer connectivity as the new challenge of the 90ies for Central and East European Cartography. In: "From Space to Territory - Spatial Information Systems Conference", Presented Pisa: 1992 (Italy)
4. Hoffmann F.: ACCESS to MetaInformation for Spatial PLANNING In: "Urban Planning & GIS" , Workshop in BITOV (CZ) 2007, 87 pp.
5. Hoffmann F.: INSPIRE - Interoperability of Geospatial Data, Services and Applications: The Status quo of INSPIRE Standardization solutions in EU, DE, SN and DD. In: MIIGAiK240, «Пространственные данные - основа стратегического планирования, управления и развития», Moscow: 2019, 62 pp.

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EUROPEAN CENTRE

University of Helsinki

Juha A. Janhunen

Prof. Dr.
FINLAND

Date of election: 28 September 2017

Scientific Field

Ethnohistory and Comparative Linguistics, Human and Social Sciences

Researcher ID: J-5405-2017
ORCID ID: 0000-0003-1242-8808

ISI Web of Science 11 May 2020
No. of articles..... 21
H index..... 4
Total citations..... 51
No. of Nature and Science papers.....

Major 5 Publications

1. Gruzdeva E, Janhunen J: The Revitalization of Nivkh on Sakhalin, ROUTLEDGE HANDBOOK OF LANGUAGE REVITALIZATION, Routledge Handbooks, 464-472, 2018
2. Lappalainen HK, Kerminen VM, Petaja T, et. al: Pan-Eurasian Experiment (PEEX): towards a holistic understanding of the feedbacks and interactions in the land-atmosphere-ocean-society continuum in the northern Eurasian region, ATMOSPHERIC CHEMISTRY AND PHYSICS, 16, 22, 14421-14461, DOI: 10.5194/acp-16-14421-2016, 2016
3. Janhunen J: Non-borrowed non-cognate parallels in bound morphology: aspects of the phenomenon of shared drift with Eurasian examples, COPIES VERSUS COGNATES IN BOUND MORPHOLOGY, Brills Studies in Language Cognition and Culture, 2, 23-46, 2012
4. Janhunen J: Mongolian. London Oriental and African Languages Library 19. Amsterdam: John Benjamins, 2012
5. Janhunen J, Wu Y: New materials on the Khitan Small Script. Languages of Asia 9. Folkstone: Global Oriental / Brill, 2010

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EUROPEAN CENTRE

Chairman of Programme & Science Committee and Committee on Meetings of the European Meteorological Society

Sylvain Michel Joffre

Prof. Dr.

FINLAND/FRANCE

Date of election: 21 May 2021

Scientific Field

Boundary layer dynamics; Air Pollution and Long-range transport; Air-sea interactions; Atmospheric physico-chemistry; Numerical Weather Prediction

Researcher ID:
ORCID ID: 0000-0002-6795-1754
SCOPUS ID: 6603741689

ISI Web of Science 8 July 2021
No. of articles..... 31
H index.....18
Total citations.....1,532
No. of Nature and Science papers.....

Major 5 Publications

1. Zilitinkevich S.S., I. Mammarella, A. A. Baklanov, & S. M. Joffre, 2008: The effect of stratification on the aerodynamic roughness length and displacement height. Boundary layer Meteor.129, pp. 179-190. DOI 10.1007/s10546-008-9307-9.
2. Joffre S.M., Kangas M, Heikinheimo M. & Kitaigorodskii S.A, 2001. Variability of the stable and unstable atmospheric boundary layer height and its scales over a boreal forest. Boundary-Layer Meteorol. 99(3), 429-450.
3. Hakola H., Joffre S.M., Lättilä H. & P. Taalas, 1991. Transport, formation, and sink processes behind surface ozone variability in North European conditions. Atmos. Environ. 25A8, 1437-1447.
4. Joffre S.M., 1988. Modelling the Dry Deposition Velocity of Highly Soluble Gases to the Sea Surface. Atmos. Environ., 22(6), p. 1137-1146.
5. Joffre S.M., 1982. Momentum and Heat Transfers in the Surface Layer over a Frozen Sea. Boundary-Layer Meteor. 24(2), p. 211-229.

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Vladimir L. Katanaev

Prof., Dr. habil., Dr. rer. nat.

SWITZERLAND/RUSSIA

Date of election: 21 May 2021

Scientific Field

Intracellular signal transduction, cancer, neurodegenerative diseases, drug discovery and development, biological and bio-inspired nanostructures and nanocoatings, WNT signaling, medicinal chemistry, natural products, breast cancer

Researcher ID: F-9480-2014
ORCID ID: 0000-0002-7909-5617

ISI Web of Science 8 July 2021
No. of articles..... 102
H index.....25
Total citations.....2,833
No. of Nature, Science and Cell papers.....4

Major 5 Publications

1. Kryuchkov M, Bilousov O, Lehmann J, Fiebig M, Katanaev VL: Reverse and forward engineering of Drosophila corneal nanocoatings, Nature, 585:7825, 383-389, 2020
2. Solis GP, Bilousov O, Lüchtenborg AM, Koval A, Lin C, Katanaev VL: Golgi-resident Gαo promotes protrusive membrane dynamics, Cell, 170:5, 939-955, 2017
3. Zielinska KA, Katanaev VL: Information theory: New Look at oncogenic signaling pathways, Trends in Cell Biology, 29:11, 862-875, 2019
4. Lin C, Koval A, Tishchenko S, Gabdulkhakov A, Tin U, Solis G, Katanaev VL : Double suppression of the Galpha protein activity by RGS proteins, Molecular Cell, 53:4, 663-671, 2014
5. Keshelava A, Solis GP, Hersch M, Koval A, Kryuchkov M, Bergmann S, Katanaev VL: High capacity in G protein-coupled receptor signaling, Nature Communications, 9: 876, 2018

Professor and Chair of Translational Oncology, Department of Cell Physiology and Metabolism, Faculty of Medicine, University of Geneva;

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Veli-Matti Kerminen

Prof. Dr.

FINLAND

Institute of Atmospheric and Earth System Research (INAR) at the University of Helsinki

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Scientific Field

AtmosphericResearch

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ORCID ID: 0000-0002-0706-669X

ISI Web of Science 18 June 2020
No. of articles..... 293
H index.....67
Total citations.....16,739
No. of Nature and Science papers.....7

Major 5 Publications

1. Kerminen V-M, Chen X, Vakkari V, et al (2018): Atmospheric new particle formation and growth: review of field observations, Environ. Res. Lett. 13, 103003, DOI:10.1088/1748-9326/aadf3c
2. Yao L, Garmash O, Bianchi F, et al (2018): Atmospheric new particle formation from sulfuric acid and amines in a Chinese megacity, Science 361, 278-281
3. Lehtipalo K, Yan C, Dada L, et al (2018): Multicomponenent new particle formation from sulfuric acid, ammonia, and biogenic vapors. Sci. Adv. 4, eaau5363, 2018
4. Wang J, Zhao B, Wang S, et al (2017): Particulate matter pollution over China and the effects of control policies. Sci. Total Environ. 584-585, 426-447
5. Chu B, Kerminen V-M, Bianchi F, et al (2019): Atmospheric new particle formation in China. Atmos. Chem. Phys. 19, 115-138

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EUROPEAN CENTRE

Markku Kivinen

Honorary Doctor in Russian Academy of Sciences, Institute of Sociology

FINLAND

Date of election: 8 May 2015

Scientific Field

Sociology, Russian studies, Social policy, International relations, Cultural studies, Energy policy

Professor Emeritus,
Research Director,
Aleksanteri Institute
of the University of
Helsinki

Researcher ID: H-7915-2016
ORCID ID:

ISI Web of Science 12 May 2020
No. of articles..... 13
H index..... 4
Total citations..... 49
No. of Nature and
Science papers.....

Major 5 Publications

1. Markku Kivinen and Mikhail Maslovskiy: Russian Modernization a New Paradigm. In Markku Kivinen and Brendan Humphreys (ed.) Russian Modernization: A New Paradigm. Routledge. Studies on Contemporary Russia Series 2020, pp. 6-28.
2. Kivinen, M., Kainu, M., Kuhnle, S. & Li, C: Reform and Stability – The Russian and the Chinese Welfare Systems Compared In: Russian Politics. 4, 3, p. 423-446.
3. Kivinen M, Cox T: Russian Modernisation-A New Paradigm, EUROPE-ASIA STUDIES, 68, 1, SI, 1-19, DOI: 10.1080/09668136.2015.1125573, 2016
4. Kainu M, Kulmala M, Nikula J, Kivinen M: The Russian welfare state system With special reference to regional inequality, ROUTLEDGE INTERNATIONAL HANDBOOK TO WELFARE STATE SYSTEMS, Routledge International Handbooks, 291-316, 2017
5. Aalto P, Dusseault D, Kennedy MD, Kivinen M: Russia's energy relations in Europe and the Far East: towards a social structurationist approach to energy policy formation, JOURNAL OF INTERNATIONAL RELATIONS AND DEVELOPMENT, 17, 1, 1-29, DOI: 10.1057/jird.2012.29, 2014

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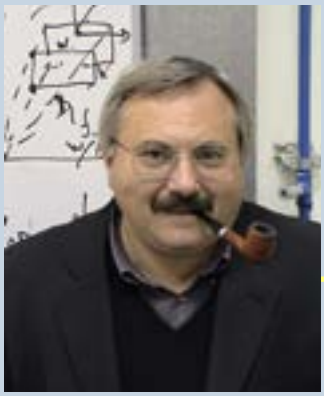
EUROPEAN CENTRE



Department of
Mechanical Engineering,
Ben-Gurion University
of the Negev

Nathan Kleeorin

Prof. Dr.
ISRAEL

Date of election: 20 April 2015

Scientific Field
Atmospheric Research

Researcher ID: F-2267-2012
ORCID ID:

ISI Web of Science 12 May 2020
No. of articles..... 183
H index..... 34
Total citations..... 3,748
No. of Nature and
Science papers.....

Major 5 Publications

1. Rogachevskii I, Kleeorin N: Generation of a large-scale vorticity in a fast-rotating density-stratified turbulence or turbulent convection, PHYSICAL REVIEW E, 100, 6, 063101, DOI: 10.1103/PhysRevE.100.063101, 2019
2. Kleeorin N, Rogachevskii I, Soustova IA, et al: Internal gravity waves in the energy and flux budget turbulence-closure theory for shear-free stably stratified flows, PHYSICAL REVIEW E, 99, 6, 063106, DOI: 10.1103/PhysRevE.99.063106, 2019
3. Kuzanyan KM, Safiullin N, Kleeorin N, et al: Large-Scale Properties of the Tilt of Sunspot Groups and Joy's Law Near the Solar Equator, ASTROPHYSICS, 62, 2, 261-275, DOI:10.1007/s10511-019-09579-2, 2019
4. Schober, J (Schober, J.); Brandenburg, A (Brandenburg, A.); Rogachevskii, I (Rogachevskii, I.); Kleeorin N: Energetics of turbulence generated by chiral MHD dynamos, GEOPHYSICAL AND ASTROPHYSICAL FLUID DYNAMICS, 113, 1-2, SI, 107-130, DOI: 10.1080/03091929.2018.1515313, 2019
5. Losada IR, Warnecke J, Brandenburg A, et al: Magnetic bipoles in rotating turbulence with coronal envelope, ASTRONOMY & ASTROPHYSICS, 621, A61, DOI: 10.1051/0004-6361/201833018, 2019

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Milan Konecny

Knight of Brazilian Cartography, Brazil; Dr.h.c., University of Architecture, Civil Engineering and Geodesy, Bulgaria; Honorary Professor, Siberian State Academy of Geodesy, Russia; Honorary Member of Spanish Society for Cartography, Photogrammetry and Remote Sensing, Spain; ICA Honorary Fellow , Germany; Pangea World Fellow, USA; ISDE Fellowship, Italy

CZECH REPUBLIC

Date of election: 18 May 1996

Professor, Head of Laboratory for Geoinformtics and Cartography, Faculty of Science, Masaryk University

Scientific Field

Cartography, GIS, Spatial Data Infrastructures, Spatial Big Data, Early Warning, Disaster Risk Management and Disaster Risk Reduction, Mapping for children and seniors

Researcher ID: AAL-5794-2020
ORCID ID:

ISI Web of Science 9 July 2020
No. of articles..... 29
H index.....7
Total citations.....167
No. of Nature and Science papers.....

Major 5 Publications

1. Konečný M, Bandrova TL, Kubíček P, et al: Digital Earth for Disaster Mitigation, MANUAL OF DIGITAL EARTH, 495-526, DOI:10.1007/978-981-32-9915-3_15, 2019
2. Kubíček P, Konečný M, Stachoň Z, et al: Population Distribution Modeling at Fine Spatio-temporal Scale Based on Mobile Phone Data, INTERNATIONAL JOURNAL OF DIGITAL EARTH, 12, 11, 1319-1340, DOI: 10.1080 / 17538947.2018.1548654, 2019
3. Lin, Hui; Batty, Michael, ...Konecny,Milan at al.: Virtual Environments Begin to Embrace Process-based Geographic Analysis. TRANSACTIONS IN GIS, 19 4, 493-498, 2015; DOI:10.1111/tgis.12167
4. Annoni, A.; Craglia, M.;...Konecny M., at al: A European perspective on Digital Earth, INTERNATIONAL JOURNAL OF DIGITAL EARTH, 4,4, 271-284, 2011; DOI:10.1080/17538947.2011.582888
5. Konečný, Milan – Rais, Karel. Geografické informační systémy. Folia Geografia, roč. XXVI, Geographia 21, č. 13. Brno,1985. 196 s. (first GIS textbook in the World).

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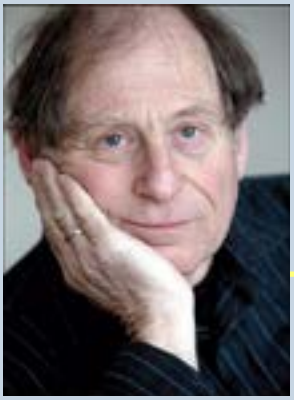

Salomon B. Kroonenberg

Prof. Dr.

NETHERLANDS, SURINAME

Department of Geosciences and Engineering, Delft University of Technology and Anton de Kom University of Suriname

Date of election: 15 November 2017

Scientific Field

Sea-level Change, Quaternary Geology, Precambrian Geology

Researcher ID:
ORCID ID: 0000-0001-7240-8425

ISI Web of Science 12 May 2020
No. of articles..... 63
H index..... 24
Total citations..... 1,551
No. of Nature and Science papers.....

Major 5 Publications

1. Kroonenberg SB, Rusakov GV, Svitoch AA: The wandering of the Volga delta: a response to rapid Caspian Sea-level changes, Sedimentary Geology 107:189-209, DOI: 10.1016/S0037-0738(96)00028-0, 1997
2. Kroonenberg SB, Badyukova EN, Storms JEA, Ignatov EI, KasimovNS: A full sea-level cycle in sixty-five years: barrier dynamics along Caspian shores. Sedimentary Geology 134:257-274, 2000
3. Kroonenberg SB, Kasimov NS, Lychagin MYu: The Caspian Sea, a natural laboratory for sea-level change. Geography, Environment, Sustainability, 1,1,22-37, 2008
4. Kroonenberg SB, De Roever EWF, Fraga LM, Reis NJ, Faraco MT, Cordani UG, Lafon J-M & Wong Th E: Paleoproterozoic evolution of the Guiana Shield in Suriname – a revised model. Netherlands Journal of Geosciences- Geologie en Mijnbouw 95:491-522, 2016
5. Kroonenberg SB: The Proterozoic Basement of the Western Guiana Shield and the Northern Andes. In: F. Cediel, R. P. Shaw (eds.), Geology and Tectonics of Northwestern South America, Frontiers in Earth Sciences, Springer, 115-192, 2019

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Director
Institute of Atmospheric and Earth System Research (INAR) at the University of Helsinki

Markku Kulmala

Academician of Finnish Academy of Sciences, Academician of Chinese Academy of Sciences, Academician of Russian Academy of Sciences, Academy Professor .
FINLAND

Date of election: 24 June 2013

Scientific Field

Air Quality, Atmosphere, Aerosols, Trace Gases, Biosphere, Atmospheric Chemistry, Climate, Continuous Comprehensive Observations, Feedback's and Interactions, Meteorology and Atmospheric Sciences

Researcher ID: I-7671-2016
ORCID ID: 0000-0003-3464-7825

ISI Web of Science 20 October 2020
No. of articles..... 1100
H index.....117
Total citations.....57,600
No. of Nature and Science papers.....34

Major 5 Publications

1. Kulmala M: Build a global Earth observatory, Nature, 553:7686, 21-23, 2018
2. Kulmala M, Kerminen VM, Petäjä T, et al: Atmospheric gas-to-particle conversion: why NPF events are observed in megacities? Faraday Discussions, 200, 271-288, DOI: 10.1039/c6fd00257a, 2017
3. Kulmala M: China's choking cocktail, Nature, 526, 497-499, 2015
4. Kulmala M, Petäjä T, Kerminen VM, et al: On secondary new particle formation in China, Frontiers Of Environmental Science & Engineering, 10:5(08), DOI: 10.1007/s11783-016-0850-1 and 10, DOI: 10.1007/s11783-016-0857-7, 2016
5. Kulmala M, Petaja T, Ehn M, et al: Chemistry of Atmospheric Nucleation: On the Recent Advances on Precursor Characterization and Atmospheric Cluster Composition in Connection with Atmospheric New Particle Formation, Book Series: Annual Review of Physical Chemistry, 65, 21-37, DOI: 10.1146/annurev-physchem-040412-110014, 2014

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EUROPEAN CENTRE

KTH Royal Institute of Technology, Researcher

Vladimir Kutcherov

Prof. Dr.

SWEDEN

Date of election: 19 September 2019

Scientific Field

High Pressure Physics, Chemistry, Geochemistry, Energy, Petroleum Science

Researcher ID: R-9275-2016
ORCID ID:

ISI Web of Science 1 June 2020
No. of articles..... 33
H index.....9
Total citations.....290
No. of Nature and Science papers.....5

Major 5 Publications

1. Serovaiskii A, Kutcherov V: Formation of complex hydrocarbon systems from methane at the upper mantle thermobaric conditions, SCIENTIFIC REPORTS, 10, 1, 4559, DOI: 10.1038/s41598-020-61644-5, 2020
2. Mukhina E, Kolesnikov A, Kutcherov V: The lower pT limit of deep hydrocarbon synthesis by CaCO3 aqueous reduction. SCIENTIFIC REPORTS, 7, 1, 5749, DOI: 10.1038/s41598-017-06155-6, 2017
3. Kolesnikov AY, Saul JM, Kutcherov VG: Chemistry of hydrocarbons under extreme thermobaric conditions, ChemistrySelect, 2, 4, 1336-1352, DOI: 10.1002/slct.201601123, 2017
4. Kolesnikov AY, Kutcherov VG, Goncharov AF: Methane-derived hydrocarbons produced under upper-mantle conditions, NATURE GGEOSCIENCE, 2, 566 – 570, DOI: 10.1038/ngeo591, 2009
5. Kenney JF, Kutcherov VG, Bendeliani NA, Alekseev VA. The evolution of multicomponent systems at high pressures: VI. The thermodynamic stability of the hydrogen–carbon system: The genesis of hydrocarbons and the origin of petroleum. PNAS, 299, 17, 10976-10981, DOI:10.1073/pnas.172376899, 2002.

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EUROPEAN CENTRE

Ari Laaksonen

Prof. Dr.
FINLAND

Date of election: 08 July 2015

Scientific Field
Atmospheric and Climate Research

Chief Scientist
Finnish Meteorological Institute (FMI)

Professor of Environmental Physics
University oi Eastern Finland

Researcher ID: B-5094-2011
ORCID ID: 0000-0002-1657-2383

ISI Web of Science 13 May 2020
No. of articles..... 254
H index..... 63
Total citations..... 16,322
No. of Nature and Science papers.....11

Major 5 Publications

1. Laaksonen A: A unifying model for adsorption and nucleation of vapors on solid surfaces. JOURNAL OF PHYSICAL CHEMISTRY A 119, 16, 3736-3745, DOI: 10.1021/acs.jpca.5b00325, 2015
2. Mikkonen S, Laine M, Mäkelä HM et al: Trends in the average temperature in Finland, 1847-2013. STOCHASTIC ENVIRONMENTAL RESEARCH AND RISK ASSESSMENT 29, 6, 1521-1529, DOI: 10.1007/s00477-014-0992-2, 2015
3. Laaksonen A, Kulmala M, O'Dowd CD et al:The role of VOC oxidation products in continental new particle formation. ATMOSPHERIC CHEMISTRY AND PHYSICS 8, 10, 2657-2665, DOI: 10.5194/acp-8-2657-2008, 2008
4. Sorjamaa R, Svenningsson B, Raatikainen T et al:The role of surfactants in Kohler theory reconsidered. ATMOSPHERIC CHEMISTRY AND PHYSICS 4, 2107-2117, DOI: 10.5194/acp-4-2107-2004, 2004
5. Laaksonen A, Korhonen P, Kulmala M et al: Modification of the Köhler equation to include soluble trace gases and slightly soluble substances. JOURNAL OF THE ATMOSPHERIC SCIENCES 55, 5, 853-862 DOI: 10.1175/1520-0469(1998)055<0853:MOTKHE>2.0.CO;2, 1998

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EUROPEAN CENTRE

Paolo Laj

Dr.

FRANCE

Date of election: 7 July 2015

Scientific Field

Atmospheric Research, Atmospheric Aerosol

Physicist
Institut des Géosciences de l'Environnement
Université Grenoble-Alpes - CNRS

Researcher ID:
ORCID ID:

ISI Web of Science 12 May 2020
No. of articles..... 133
H index.....46
Total citations.....7,661
No. of Nature and Science papers..... 2

Major 5 Publications

1. Laj, P., et al. A global analysis of climate-relevant aerosol properties retrieved from the network of GAW near-surface observatories, Atmos. Meas. Tech. 2020.
2. Zanatta M, Laj P, Gysel M, et al: Effects of mixing state on optical and radiative properties of black carbon in the European Arctic, Atmos. Chem. Phys, 2018
3. Petzold, et al., Recommendations for reporting" black carbon" measurements Atmos. Chem. Phys. 2013
4. Venzac, H., et al., High Frequency New Particle Formation in the Himalayas; PNAS, 2007
5. Putaud, J.-P. et al., A European aerosol phenomenology--2: chemical characteristics of particulate matter at kerbside, urban, rural and background sites in Europe , Atmos. Environ. 2004

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EUROPEAN CENTRE

Hanna Lappalainen

Docent. Dr.
FINLAND

Date of election: 15 November 2016

Scientific Field
Forest Ecology

Secretary General of PEEX Program, Institute of Atmospheric and Earth System Research (INAR) at the University of Helsinki

Researcher ID:
ORCID ID: 0000-0003-3221-2318
ISI Web of Science 13 May 2020
No. of articles..... 24
H index.....11
Total citations.....692
No. of Nature and Science papers.....

Major 5 Publications

1. Lappalainen H, Altimir N, Kerminen VM, et al: Pan-Eurasian Experiment (PEEX) Program: An overview of the first 5 years in operation and future prospects, GEOGRAPHY, ENVIRONMENT, SUSTAINABILITY, 11, 1, DOI: 10.24057/2071-9388-2018-11-1-6-19, 2018
2. Lappalainen H, Kulmala M, Kujansuu J, et al: The Silk Road agenda of the Pan-Eurasian Experiment (PEEX) program, BIG EARTH DATA, 2, 1, 8-35, DOI: 10.1080/20964471.2018.1437704, 2018
3. Lappalainen H, Kerminen VM, Petäjä T, et al: Pan-Eurasian Experiment (PEEX): towards a holistic understanding of the feedbacks and interactions in the land–atmosphere–ocean–society continuum in the northern Eurasian region, ATMOSPHERIC CHEMISTRY AND PHYSICS, 16, 14421–14461, DOI: 10.5194/acp-16-14421-2016, 2016
4. Kulmala M, Lappalainen H, Petäjä T, et al: Introduction: The Pan-Eurasian Experiment (PEEX) – multidisciplinary, multiscale and multi-component research and capacity-building initiative, ATMOSPHERIC CHEMISTRY AND PHYSICS, 15, 13085–13096, DOI: 10.5194/acp-15-13085-2015, 2015
5. Kulmala M, Asmi A, Lappalainen H, et al: General overview: European Integrated project on Aerosol Cloud Climate and Air Quality interactions (EUCAARI) – integrating aerosol research from nano to global scales, ATMOSPHERIC CHEMISTRY AND PHYSICS, 11, 13061–13143, DOI: 10.5194/acp-11-13061-2011, 2011

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EUROPEAN CENTRE

Søren Ejling Larsen

Prof. Dr.

DENMARK

Date of election: 29 December 2012

Scientific Field

Wind Energy, Meteorology

Technical University of Denmark (DTU)
Emeritus

Researcher ID: L-2389-2017
ORCID ID: 0000-0002-4224-7568

ISI Web of Science 15 May 2020
No. of articles..... 110
H index.....22
Total citations.....1,694
No. of Nature and Science papers.....1

Major 5 Publications

1. Petrosyan, A., B. Galperin, S.E. Larsen, S.R. Lewis, A. Määtänen, P. L. Read, N. Renno, L.P.H.T.Rogberg, H. Sävjärvi, T. Siili, A. Spiga, A. Toigo, L. Vázquez, (2011). The Martian Atmospheric Planetary Boundary Layer. Reviews of Geophysics, 49, RG3005, DOI: 10.1029/2010RG000351, 1-46.
2. Baklanov, A. A. B. Grisogono, R. Bornstein, L. Mahrt, S.S. Zilitinkevic, P. Taylor, S. E. Larsen, M. W. Rotach and H.J.S. Fernando, (2010), On the Nature, Theory and Modelling of Atmospheric Planetary Boundary Layer. Bull AMS, Februar 2011. Doi: 10.1175/2010BAMS2797.1, 123-128.
3. Frandsen, S.T., H. E. Jørgensen, R. Barthelmie, O. Rathmann1, J. Badger, K. Hansen, S. Ott, P.-E. Rethore, S. E. Larsen, L. E. Jensen, (2009), The making of a second-generation wind farm efficiency model-complex. Wind Energy, Vol 12 (5) 445-458. Doi 10.1002/we.351
4. Fairall, C.W. and Larsen, S.E. (1986). Inertial dissipation methods and turbulent fluxes at the air-ocean interface. Boundary-Layer Meteorol., 34, 287-301.
5. Mikkelsen, T., Larsen, S.E. and Pecseli, H.L. (1987). Diffusion of Gaussian Puffs. Quart. J.R. Met. Soc., 113 No. 475, 81-105.

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EUROPEAN CENTRE

Department of Mathematics, Physics and Geo Sciences,
Serbian Academy of Sciences and Arts

Fedor Mesinger

Academician of Serbian Academy of Sciences and Arts, Academician of Academia Europaea
SERBIA

Date of election: 14 September 2017

Scientific Field

Numerical weather and climate modeling, in particular numerical schemes, and turbulence transports, Forecast verification

Researcher ID: L-2389-2017
ORCID ID:

ISI Web of Science/GoogleScholar	15 May 2020/5 June 2020
No. of articles.....	35 / 87
H index.....	17 / 27
Total citations.....	1,370 / 7, 450
i10-index.....	
No. of Nature and Science papers.....	

Major 5 Publications

1. Mesinger F, Chou SC, Gomes J, et al: An upgraded version of the Eta model. Meteor. Atmosph. Phys., 116, 63-79, DOI: 10.1007/s00703-012-0182-z, 2012
2. Mesinger F, Veljovic K: Eta vs. sigma: Review of past results, Gallus-Klemp test, and large-scale wind skill in ensemble experiments. Meteor. Atmosph. Phys., 129, 573-593, DOI: 10.1007/s00703-016-0496-3, 2017
3. Mesinger F, DiMego G, Kalnay E, et al: North American Regional Reanalysis. Bull. Amer. Meteor. Soc., 87, 343-360, DOI: 10.1175/BAMS-87-3-343, 2006
4. Mesinger F: Several PBL parameterization lessons arrived at running an NWP model. IOP Publishing, IOP Conf. Series: Earth and Environmental Science, 13, 012005 DOI: 10.1088/1755-1315/13/1/012005, 2010
5. Mesinger F: Bias adjusted precipitation threat scores. Adv. Geosci., 16, 137-143, DOI: 10.5194/adgeo-16-137-2008, 2008

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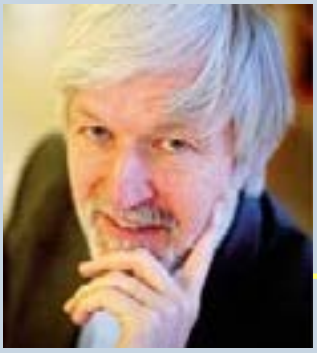

Arto Mustajoki

Chair of the Board, Academy of Finland 2010–2014, President of Finnish Academy of Science and Letters 2008-2010, Honorary Dr., Russian Academy of Science 1995, Honorary Prof., Moscow State University 1999.

FINLAND

Date of election: 6 December 2016

Scientific Field

Russian language and culture, (Mis)communication

Professor emeritus, Department of Languages, University of Helsinki
Leading research fellow, National research university "Higher School of Economics"

Researcher ID: AAH-1198-2019
ORCID ID: 0000-0002-6609-7090

GoogleScholar 8 July 2020
No. of articles..... 229
H index..... 22
Total citations.....2,320
i10-index..... 47
No. of Nature and Science papers.....

Major 5 Publications

1. Viimaranta J, Mustajoki A: What can science, religion, politics, culture and the economy do? A corpus study of metonymical conceptualization combined with personification, Scando-Slavica, 2020, DOI: 10.1080/00806765.2020.1741025, 2020
2. Mustajoki, A. The democratization of Russian. In: The soft power of the Russian language: Pluricentricity, politics and policies, ed. by A. Mustajoki, E. Protassova & M. Yelenevskaya. London, New York: Routledge, 2020, 21-34.
3. Mustajoki. A. Why is miscommunication more common in everyday life than in lingua franca conversation? In: Current Issues in Intercultural Pragmatics (Pragmatics and Beyond New Series), ed. by I. Kecskes and S. Assimakopoulos. Amsterdam/Philadephia: John Benjamins, 2017, 55-74.
4. Laine, V., Mustajoki, A. Preconditions for Russian modernisation: a media analysis. In: Philosophical and Cultural Interpretations of Russian Modernisation, ed. by K. Lehtisaari and A.Mustajoki. Abingdon: Routledge 2017, 175-190.
5. Мустайоки, А., Сабитова, Т., Парменова Т., Бирюлин, Л. Функциональный синтаксис русского языка. Москва: Юрайт, 2019, 728 стр.

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EUROPEAN CENTRE

Steffen M. Noe

Dr.rer.nat
ESTONIA

Date of election: 19 September 2019

Scientific Field

Ecological and Atmospheric Research, Air Quality, Greenhouse Gases, Trace Gases, Biogeochemical Cycles, Mathematical Modelling, Complex Systems, Forest Ecosystem Dynamics

Researcher ID: G-7549-2016
ORCID ID:

ISI Web of Science 01 June 2020
No. of articles..... 49
H index.....16
Total citations.....758
No. of Nature and Science papers.....

Major 5 Publications

1. Kitz F et al: Soil COS Exchange: A Comparison of Three European Ecosystems, Global Biogeochemical cycles, 34, 4, DOI: 10.1029/2019GB006202, 2020
2. Noe SM, Niinemets Ü: Impact of Gall-Forming Insects on Global BVOC Emissions and Climate: A Perspective, Frontiers in Forests and Global Change, 3, p9, DOI: 10.3389/ffgc.2020.00009, 2020
3. Xiao JF, Li X, He BB, et al: Solar-induced chlorophyll fluorescence exhibits a universal relationship with gross primary productivity across a wide variety of biomes, Global Change Biology, 25, 4, E4-E6, DOI: 10.1111/gcb.14565, 2019
4. Ezhova E et al: Direct effect of aerosols on solar radiation and gross primary production in boreal and hemiboreal forests, Atmospheric Chemistry and Physics, 18, 24, 17863-17881, DOI: 10.5194/acp-18-17863-2018, 2018
5. Noe S.M., et al.: Seasonal variation and characterisation of reactive trace gas mixing ratios over a hemi-boreal mixed forest site in Estonia, Boreal Env. Res. 21: 332–344, 2016

Ferjan Ormeling

Honorary Fellow of the Netherlands Cartographic Society (2001), the Hellenic Cartographic Society (2008). Honorary doctorate Eotvos Lorand Technical University, Budapest (2013), Honorary doctorate Aristoteles University, Thessaloniki (2015)

NETHERLANDS

Date of election: 1995

Researcher Explokart Research Programme, Allard Pierson Special Collections, University of Amsterdam

Scientific Field

Cartography

Researcher ID:
ORCID ID: 0000-0003-4728-1631

Major 5 Publications

1. Kraak M, Ormeling, F: Cartography, visualization of geospatial data. CRCPress, Boca Raton 2020
2. Van Diessen JR, Ormeling F: Comprehensive atlas of the Netherlands East Indies: Asia Maior 2003
3. Ormeling F: The exploration and survey of the outlying islands of Indonesia, 37-61 in A.J.Kent e.a. (eds.) Mapping empires: colonial cartographies of land and sea. Springer Nature, 2019
4. Ormeling F: The origin of sea names, 2053-2068 in: S.D. Brunn and R.Kehrein (eds.) Handbook of the changing world language map. Springer Nature, 2019
5. Kerfoot H, Ormeling F, Zaccheddu PG: Toponymy training Manual. UNGEGN. New York: United Nations 2017

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IEAS
EUROPEAN CENTRE

Professor, Institute of Atmospheric and Earth System Research (INAR) at the University of Helsinki

Tuukka Petäjä

Prof. Dr.
FINLAND

Date of election: 22 May 2013

Scientific Field

Atmospheric Research, Atmospheric Aerosol

Researcher ID: A-8009-2008
ORCID ID: 0000-0002-1881-9044

ISI Web of Science 13 May 2020
No. of articles..... 390
H index.....66
Total citations.....18,305
No. of Nature and Science papers.....18

Major 5 Publications

1. Petäjä T, O'Connor EJ, Moisseev D, et al: BAECC, A field campaign to elucidate the impact of Biogenic Aerosols on Clouds and Climate, Bull. Am. Met. Soc. 97, 1909-1928, DOI:10.1175/BAMS-D-14-00199.1, 2016
2. Petäjä T, Järvi L, Kerminen V-M, et al: Enhanced air pollution via aerosol-boundary layer feedback in China, Sci. Rep. 6, 18998, DOI: 10.1038/srep18998., 2016
3. Petäjä T, Sipilä M, Paasonen P, et al: Experimental observation of strongly bound dimers of sulphuric acid: application to nucleation in the atmosphere. Phys. Rev. Lett. 106, 228302, 2011
4. Petäjä T, Mauldin III RL, Kosciuch E, et al: Sulfuric acid and OH concentrations in a boreal forest site, Atmos. Chem. Phys. 9, pp. 7435-7448, 2009
5. Petäjä T, Duplissy E-M, Tabakova K, et al: Integrative and Comprehensive Understanding on Polar Environments (iCUPE): the concept and initial results, Atmos. Chem. Phys. Discuss., DOI:10.5194/acp-2019-1217, 2020

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EUROPEAN CENTRE

Professor,
Department of
Mechanical Engineering,
Ben-Gurion University
of the Negev

Igor Rogachevskii

Prof. Dr.

ISRAEL

Date of election: 22 March 2015

Scientific Field

Atmospheric Research,
Fluid Mechanics, Plasma Physics,
Geophysics, Astrophysics

Researcher ID: R-8247-2019
ORCID ID:

ISI Web of Science/GoogleScholar	12 May 2020 / 25 May 2020
No. of articles	176 /
H index	33 / 40
Total citations	3,550 / 5,402
i10-index	
No. of Nature and Science papers	

Major 5 Publications

1. Rogachevskii I, Kleeorin N, 2007: Magnetic Fluctuations and Formation of Large-Scale Inhomogeneous Magnetic Structures in a Turbulent Convection. PHYSICAL REVIEW E, 76, 5, 056307, DOI: 10.1103/PhysRevE.76.056307
2. Elperin T, Kleeorin N, Rogachevskii I, 1998: Effect of Chemical Reactions and Phase Transitions on Turbulent Transport of Particles and Gases. PHYSICAL REVIEW LETTERS, 80, 1, 69-72, DOI: 10.1103/PhysRevLett.80.69
3. Rogachevskii I, Kleeorin N, 1997: Intermittency and Anomalous Scaling for Magnetic Fluctuations. PHYSICAL REVIEW E, 56, 1, 417-426, DOI: 10.1103/PhysRevE.56.417
4. Elperin T, Kleeorin N, Rogachevskii I, 1996: Self-Excitation of Fluctuations of Inertial Particles Concentration in Turbulent Fluid Flow. PHYSICAL REVIEW LETTERS, 77, 27, 5373-5376, DOI: 10.1103/PhysRevLett.77.5373
5. Elperin T, Kleeorin N, Rogachevskii I, 1996: Turbulent Thermal Diffision of Small Inertial Particles". PHYSICAL REVIEW LETTERS, 76, 2, 224-228, DOI: 10.1103/PhysRevLett.76.224

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EUROPEAN
CENTRE

Alexander Sadovski

Active Member of New York Academy of Sciences
University Professor
BULGARIA

Date of election: 23 September 1994

Professor Emeritus,
Sofia University "St. Kliment Ohridski"

Scientific Field

Applied Mathematics and Statistics, Data Analysis, Agriculture, Soil Science, Environmental Protection, GIS, Risk Management

ORCID ID: 0000-0001-7576-4214

Web of Science/Scopus/GoogleScholar	08 June 2020
No. of articles.....	225
H index.....	- / 30 / 16
Total citations.....	202 / - / 949
i10-index.....	
No. of Nature and Science papers.....	61

Major 5 Publications

1. Sadovski A: An Introduction to Mathematical Agronomy: Theoretical and Experimental bases. LAP Lambert Academic Publishing, 2020. ISBN 978-620-2-51889-5, 284 pp.
2. Sadovski A: Detection of similar Homoclimates by Numerical Analysis. Bulgarian Journal of Soil Science, Vol. 4, Issue 1, 69-75. Sofia 2019. DOI: 10.5281/zenodo.3250857
3. Sadovski A: Solving Fuzzy Linear Regression with ST Decomposition. J. of Multidisciplinary Eng. Sci. and Technology, Vol. 6, Issue 3, March - 2019, 9615-9618. JMESTN 42352851
4. Sadovski A: Study on pH in Water and Potassium chloride for Bulgarian soils. Eurasian J Soil Sci. 2019, 8 (1) 11 – 16
5. Sadovski A: Multivariate methods of self-organizing models. J. Syst. Anal. Model. Simul., vol. 4, No. 1, 61-63. Berlin 1987
6. Sadovski A: L1-norm Fit of a Straight Line: Algorithm AS 74. J. Roy. Stat. Soc., Ser. C, 244-248. London 1974.

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IEAS
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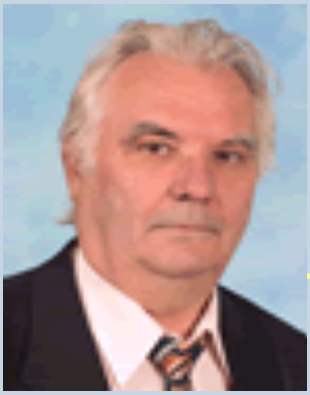

Anatoly Shvidenko

Prof. Dr.

AUSTRIA, RUSSIA

Date of election: 14 August 2015

Scientific Field

Forestry Science, Ecosystems, Climate Change

Principal Investigator, V.N. Sukachev Institute of Forest, Siberian Branch of the RAS (Russia)
Guest Emeritus Research Scholar, Ecosystems Services and Management International Institute for Applied Systems Analysis (IIASA)

Researcher ID: I-1505-2016
ORCID ID:

ISI Web of Science 26 May 2020
No. of articles..... 80
H index..... 32
Total citations..... 6,160
No. of Nature and Science papers.....3

Major 5 Publications

1. Shvidenko A, Schepaschenko D, Boului Yu. Tables and models of growth and productivity of forests of major forest forming species of Northern Eurasia. IIASA and Russian Federal Forest Service, 2nd edition, 2008
2. Shvidenko A, Schepaschenko D., McCallum M et al. Can the uncertainty of full carbon accounting be made acceptable foe policy makers? CLIMATE CHANGE, 103(1-2), 137-157, DOI: 10.1007/a10584-010-9918-2, 2010
3. Pan Y, Birdsey RA, Fang J et al. A large and persistent sink in the world forests. SCIENCE, 333(6046), 998-993, DOI: 10.1126/Science.1201609, 2011
4. Steidinger BS, Crowther TW, Liang J, et al: Climatic controls of decomposition drive the global biogeography of forest-tree symbioses, NATURE, 569, 7756, 404-+, DOI: 10.1038/s41586-019-1128-0 , 2019
5. Gauthier S, Bernier P, Kuuluvainen T, Shvidenko AZ et al. Boreal forests health and global change. SCIENCE, 349 (6250), 819-822, DOI: 10.1126/science.aaa.9092, 2015

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EUROPEAN CENTRE

Henrik Skov

Prof. Dr.

DENMARK

Date of election: 13 September 2017

Scientific Field

Arctic Atmospheric Chemistry

Professor, Scientific head of Villum Research Station, Station Nord
Department of Environmental Science, Aarhus University

Researcher ID:
ORCID ID: 0000-0003-1167-8696

ISI Web of Science 11 June 2020
No. of articles..... 109
H index.....35
Total citations.....3,390
No. of Nature and Science papers.....1

Major 5 Publications

1. Skov H, Hjorth J. Nordstrøm, C. Jensen, B. Christoffersen, C. Poulsen, M.B. Liisberg, J.B. and Dall'Osto M. (2019). The variability in Gaseous Elemental Mercury at Villum Research Station, Station Nord in North Greenland from 1999 to 2017. ACPD, DOI:10.5194/acp-2019-912
2. Lange, R. Dall'Osto M. Wex, H. Skov, H. & Massling, A. (2019). Large summer contribution of organic biogenic aerosols to Arctic cloud condensation nuclei. Geophysical Research Letters, 46, DOI:10.1029/2019GL084142
3. Dall'Osto, M. Beddows, D. C. S. Tunved, P. Harrison, R. M. Lupi, R. Vitale, V. Becagli, S. Traversi, R. Park, K. T. Yoon, Y. J. Massling, A. Skov, H. Ström, J. Krejci, R. (2019) Simultaneous aerosol size distributions and chemical composition in the European high Arctic, ACP. 19, 11 Pages: 7377-7395. DOI: 10.5194/acp-19-7377-2019
4. Nielsen, I.E. Skov, H. Christensen, J.H. Massling, A. Eriksson, A.C. Junninen, H. Sipilä, M. Sarnela, N. Peräkylä, O. Zhang, Q. Cappa, C.D. and Nøjgaard, J.K. (2019) Biogenic and anthropogenic sources of aerosols at the High Arctic site Villum Research Station. Atmos. Chem. Phys. Volume: 19 Issue: 15. DOI:10.5194/acp-2019-130
5. Kamp, J. Skov, H. Jensen, B. and Sørensen, S.S. (2018) Fluxes of Gaseous Elemental Mercury (GEM) in High Arctic during Atmospheric Mercury Depletion Events (AMDEs). ACP. Vol. 18, 6923–6938. DOI:10.5194/acp-18-6923-2018

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EUROPEAN CENTRE

Petteri Taalas

Prof. Dr.
FINLAND/SWITZERLAND

Date of election: 24 June 2013

Scientific Field

Satellite Technology, Global Change, Climate & Atmospheric Chemistry

Highlight of memberships/honours received

- Petteri Taalas represented Finland at the Intergovernmental Panel on Climate Change (IPCC), leading the national IPCC group. He has also been a member of government panels on Arctic, space and climate matters.
- He is a member of Science and Technology Academies, an honorary Member of China Meteorological Association, a Member of Eurasian Academy and an honorary doctor of TERI University in India and University of Eastern Finland.
- He has received Commanders Cross from the president of Finland, Big German Commanders cross, Commander of Honour of Greece as well as first class military, Border Guard and Civil Protection of Finland and first class medal of Estonia on hydrometeorology.
- He was the alumni of the year of Helsinki University in 2012.

Secretary General, World Meteorological Organisation (WMO); Finnish Meteorological Institute (FMI)

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EUROPEAN CENTRE

Professor, Head of Oulu cosmic-ray station at University of Oulu

Ilya Usoskin

Knight (1st class) of the Order of Lion of Finland
Finnish Academy of Sciences and Letters, member
Recepient Julis Bartels medal of EGU (2018)
FINLAND

Date of election: 15 November 2017

Scientific Field

Space Physics, Cosmic rays, Solar-Terrestrial relations

SCOPUS ID: 7004683817
Researcher ID: E-5089-2014
ORCID ID: 0000-0001-8227-9081

ISI Web of Science 26 May 2020
No. of articles..... 391
H index.....50
Total citations.....9,645
No. of Nature and Science papers.....3

Major 5 Publications

1. Usoskin, I.G., S. Solanki, M. Schuessler, K. Mursula, K. Alanko, A millennium scale sunspot number reconstruction: Evidence for an unusually active sun since the 1940's, Phys. Rev. Lett., 91(21), 211101, 2003.
2. Solanki, S.K., I.G. Usoskin, B. Kromer, M. Schuessler and J. Beer, An unusually active Sun during recent decades compared to the previous 11,000 years, Nature, 431, 1084-1087, 2004
3. Usoskin, I.G., K. Alanko-Huotari, G.A. Kovaltsov, K. Mursula, Heliospheric modulation of cosmic rays: Monthly reconstruction for 1951-2004, J. Geophys. Res., 110(A12), CiteID A12108, 2005.
4. Usoskin, I.G., G.A. Kovaltsov, Cosmic ray induced ionization in the atmosphere: Full modeling and practical applications, J. Geophys. Res., 111, D21206, 2006.
5. Miyake, F., I. Usoskin, S. Poluianov (eds), Extreme Solar Particle Storms: the hostile Sun, IOP Publ., Bristol UK, 2019, doi: 10.1088/2514-3433/ab404a

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EUROPEAN CENTRE

Bas van de Wiel

ANTONI VAN LEEUWENHOEK PROFESSOR NETHERLANDS

Professor, Delft University of Technology

Date of election: 09 February 2018

Scientific Field

Atmospheric Research, Meteorology and Atmospheric Sciences, Stably Stratified flows, Atmosphere-surface interactions, Environmental Fluid Mechanics, Boundary layer meteorology

SCOPUS ID: 6602612066

SCOPUS 30 May 2020
No. of articles..... 59
H index.....20
Total citations.....1,479
No. of Nature and Science papers.....

Major 5 Publications

1. Van de Wiel BJH, Vignon E, Baas P, et al: Regime transition in near-surface temperature inversions: a conceptual model., J. Atmos. Sci., DOI: 10.1175/JAS-D-16-0180.1, 2017
2. Van Hooft JA., Popinet S., van Heerwaarden CC, van der Linden, SJA, de Roode, SR & van de Wiel, BJH, 2018, : Towards Adaptive Grids for Atmospheric Boundary-Layer Simulations, Bound.-Layer Meteor., DOI:10.1007/s10546-018-0335-9.
3. Van Hooijdonk IGS, Donda JMM , Clercx HJH, Bosveld FC, and van de Wiel BJH, (2015) Shear capacity as prognostic of nocturnal boundary layer regimes. J. Atmos. Sci., DOI: 10.1175/JAS-D-14-0140.1
4. Van de Wiel BJH, Moene AF, Steeneveld GJ, Baas P., Bosveld, FC, and Holtslag AAM, 2010. A conceptual view on inertial oscillations and nocturnal low-level jets. ., J. Atmos. Sci., DOI: 10.1175/2010JAS3289.1
5. Vignon E, van de Wiel BJH, van Hooijdonk IGS, et al: Stable Boundary Layer regimes at Dome C, Antarctica. Quart. J. Roy. Meteor. Soc., DOI: 10.1002/qj.2998, 2017

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EUROPEAN CENTRE

Institute of Atmospheric and Earth System Research (INAR) at the University of Helsinki

Timo Vesala

Prof. Dr.
FINLAND

Date of election: 24 June 2013

Scientific Field

Biogeochemical Cycles, Meteorology & Atmospheric Science, Environmental Sciences & Ecology, Forestry

Researcher ID: C-3795-2017
ORCID ID: 0000-0002-4852-7464

ISI Web of Science 14 May 2020
No. of articles..... 327
H index.....69
Total citations.....24,827
No. of Nature and Science papers.....4

Major 5 Publications

1. Peltola O, Vesala T, Gao Y et al: Monthly Gridded Data Product of Northern Wetland Methane Emissions Based on Upscaling Eddy Covariance Observations. Earth Syst. Sci. Data 11, 1263-1289, 2019
2. Franz D, Acosta M, Altimir N, ... Vesala T: Towards long-term standardised carbon and greenhouse gas observations for monitoring Europe's terrestrial ecosystems: a review. International Agrophysics 32, 10.1515/intag-2017-0039, 2018
3. Pulliainen J, Aurela M, Laurila T,... Vesala T: Early snowmelt significantly enhances boreal springtime carbon uptake. PNAS, www.pnas.org/cgi/doi/10.1073/pnas.1707889114, 2017
4. Dewar R, Mauranen M, Mäkelä A, Hölttä T, Medlyn B and Vesala T: New insights into the covariation of stomatal, mesophyll and hydraulic conductances from optimization models incorporating non-stomatal limitations to photosynthesis. New Phytologist, doi:10.1111/nph.14848, 2017
5. Vesala T, Sevanto S, Grönholm T, Salmon Y, Nikinmaa E, Hari P and Hölttä T: Effect of leaf water potential on internal humidity and CO2 dissolution: Reverse transpiration and improved water use efficiency under negative pressure. Frontiers in Plant Science, doi: 10.3389/fpls.2017.00054, 2017

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EUROPEAN CENTRE

Finnish Meteorological Institute (FMI)

Yrjo Viisanen

Prof. Dr.
FINLAND

Date of election: 24 June 2013

Scientific Field

Ecosystem Atmosphere Interactions

Researcher ID:
ORCID ID:

ISI Web of Science 10 July 2020
No. of articles..... 130
H index.....39
Total citations.....6,347
No. of Nature and Science papers.....

Major 5 Publications

1. Kirkby J, Curtius J, Almeida J, et al: Role of sulphuric acid, ammonia and galactic cosmic rays in atmospheric aerosol nucleation, NATURE, 476, 7361, 429-U77, DOI:10.1038/nature10343, 2011
2. Almeida J, Schobesberger S, Kurten A, et al: Molecular understanding of sulphuric acid-amine particle nucleation in the atmosphere, NATURE, 502, 7471, 359-DOI: 10.1038/nature12663, 2013
3. Tunved P, Hansson HC, Kerminen VM: High natural aerosol loading over boreal forests, SCIENCE, 312, 5771, 261-263, DOI: 10.1126/science.1123052, 2006
4. Viisanen Y, Strey R, Reiss H: Homogeneous nucleation rates for water, JOURNAL OF CHEMICAL PHYSICS, 99, 6, 4680-4692, DOI: 10.1063/1.466066, 1993
5. Kulmala M, Hameri K, Aalto P, et al: Overview of the international project on biogenic aerosol formation in the boreal forest (BIOFOR), TELLUS SERIES B-CHEMICAL AND PHYSICAL METEOROLOGY, 53, 4, 324-343, DOI: 10.1034/j.1600-0889.2001.d01-24.x, 2001

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EUROPEAN CENTRE

Vito Vitale

Dr.

ITALY

Date of election: 21 May 2021

Scientific Field

Atmospheric research, radiative transfer processses, aerosols, radiation and energy budget, atmospheric composition changes and climate

Director of Research at the National Research Council, Institute of Polar Sciences (CNR-ISP)

Researcher ID: AAW-8441-2021
ORCID ID: 0000-0003-0978-8976

GoogleScholar/ISI Web of Science (8 July 2021)
No. of articles..... 176/84
H index..... 25/18
Total citations..... 2,043/1,251
i10-index: 54
No. of Nature and Science papers.....

Major 5 Publications

1. Bromwich DH, Werner K, Casati B, et al: The Year of Polar Prediction in the Southern Hemisphere (YOPP-SH), BULLETIN OF THE AMERICAN METEOROLOGICAL SOCIETY, vol. 101, pp. E1653–E1676, doi: 10.1175/BAMS-D-19-0255.1, 2020
2. Ferrero L, Ritter C, Cappelletti D, et al.: Aerosol optical properties in the Arctic: The role of aerosol chemistry and dust composition in a closure experiment between Lidar and tethered balloon vertical profiles, SCIENCE OF THE TOTAL ENVIRONMENT, vol. 686, pp. 452-467, doi: 10.1016/j.scitotenv.2019.05.399, 2019
3. Tomasi C, Kokhanovsky AA, Lupi A, et al: Aerosol remote sensing in polar regions. EARTH-SCIENCE REVIEWS, vol. 140, pp.108-157, ISSN: 0012-8252, doi: 10.1016/j.earscirev.2014.11.001, 2015
4. Petkov B, Vitale V, Tomasi C, et al: Response of the ozone column over Europe to the 2011 Arctic ozone depletion event according to ground-based observations and assessment of the consequent variations in surface UV irradiance. ATMOSPHERIC ENVIRONMENT, vol. 85, pp. 169-178, ISSN: 1352-2310, 2014
5. Järvinen E, Virkkula A, Nieminen T, et al: Seasonal cycle and modal structure of particle number size distribution at Dome C, Antarctica. ATMOSPHERIC CHEMISTRY AND PHYSICS, vol. 13, pp. 7473-7487, doi: 10.5194/acp-13-7473-2013

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EUROPEAN CENTRE

Desheng Dash Wu

Prof. Dr.

SWEDEN

Date of election: 19 September 2019

Scientific Field

Risk Analysis

Professor, Stockholm Business School, Stockholm University

Researcher ID: I-6230-2012
ORCID ID:

ISI Web of Science 2019
No. of articles..... 150
H index..... 44
Total citations..... 6648
No. of Nature and Science papers.....

Major 5 Publications

1. Wu D, Zhang B, Baron O: A Trade Credit Model with Asymmetric Competing Retailers. Accepted. Production and Operations Management, 2018
2. Zhang B, Wu D, Liang L: Trade credit model with customer balking and asymmetric market information. Transportation Research Part E: Logistics and Transportation Review, 110, 31-46, 2018
3. Ding S, Li Y, Wu D, et al: Time-aware cloud service recommendation using similarity-enhanced collaborative filtering and ARIMA. Decision Support Systems. DOI: 10.1016/j.dss.2017.12.012, 2018
4. Ben-Ammar O, Dolgui A, Wu D: Planned lead times optimization for multi-level assembly systems under uncertainties. Omega. DOI: 10.1016/j.omega.2017.11.004, 2017
5. Pan Y, Wu D: A Novel Recommendation Model for Online-to-Offline Service Based on the Customer Network and Service Location. Journal of Management Information Systems 37 (2), 563-593, 2020

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EUROPEAN CENTRE

Yong Xue

Prof. Dr.; Charted Physicist
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Date of election: 19 September 2019

Scientific Field

Quantitative Remote Sensing (Aerosol, Energy Exchange at the boundary layer), Geocomputation, Big Earth Data

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ISI Web of Science 30 May 2020
No. of articles..... 283
H index..... 25
Total citations..... 2,442
No. of Nature and Science papers.....

Major 5 Publications

1. Yanqing Xie; Yong Xue; Jie Guang; Linlu Mei; Lu She; Ying Li; Yahui Che; Cheng Fan, 2020, Deriving a Global and Hourly Data Set of Aerosol Optical Depth Over Land Using Data from Four Geostationary Satellites: GOES-16, MSG-1, MSG-4, and Himawari-8. IEEE Transactions on Geoscience and Remote Sensing. Vol. 58, Issue 3, March 2020, pp.1538-1549. (DOI: 10.1109/TGRS.2019.2944949)
2. Yong Xue, Xingwei He, Gerrit de Leeuw, Linlu Mei, Yahui Che, Wayne Rippin, Jie Guang, Yincui Hu, 2017, Long-time series aerosol optical depth retrieval from AVHRR data over land in North China and Central Europe. Remote Sensing of Environment, Vol. 198, Pages 471 -489. (DOI:10.1016/j.rse.2017.06.036)
3. Yong Xue, Xingwei He, Hui Xu, Jie Guang, Jianping Guo, and Linlu Mei, 2014, CHINA COLLECTION 2.0: The Aerosol Optical Depth Dataset from the Synergetic Retrieval of Aerosol Properties Algorithm. Atmospheric Environment, Volume 95, Pages 45–58. (DOI: 10.1016/j.atmosenv.2014.06.019)
4. Chi Li, Yong Xue, Quanhua Liu, Jie Guang, Xingwei He, Jiahua Zhang, Tingkai Wang, Xinjie Liu, 2014, Post Calibration of Channels 1 and 2 of Long-term AVHRR Data Record Based on SeaWiFS Data and Pseudo-invariant Targets. Remote Sensing of Environment, Vol. 150, Pages 104–119. (DOI: 10.1016/j.rse.2014.04.020).
5. Xue, Y. and Cracknell, A. P., 1995, Advanced Thermal Inertia Modelling. International Journal of Remote Sensing, 16(3), 431-446. (DOI:10.1080/01431169508954411)

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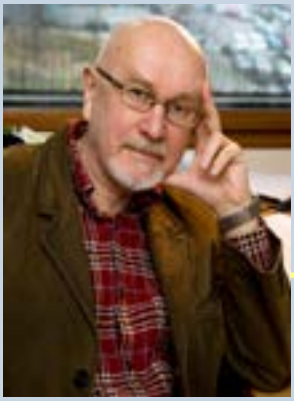

Sergej Zilitinkevich†

Prof. , Dr.

FINLAND

†Deceased

Date of election: 24 June 2013

Finnish Meteorological Institute (FMI)
Institute of Atmospheric and Earth System Research (INAR) at the University of Helsinki

Sergej Zilitinkevich: international scientist, winner of many awards, and leader of numerous international research projects that produced many outstanding contributions to the physics of atmospheric turbulence and of planetary boundary layer (PBL) processes and structures.

Sergej's research was honoured with many international prizes and awards, including the Vilhelm Bjerknes (2000) and Alfred Wegener (2015) medals of the European Geophysical Union, as well as the prestigious IMO Prize (2019) for outstanding contributions to meteorology, climatology, and related fields (https://public.wmo.int/en/media/news/sergej-zilitinkevich-named-imo-prize-laureate).

For more than half a century his work was pioneering in both theoretical developments and practical applications that responded to vital needs in weather forecasting, air-quality prediction, and climate modelling. He published more than 200 papers and nine books on PBLs, air–sea interactions, environmental turbulence, the general circulations of the Earth, planetary atmospheres, climate theory, and the physical aspects of modelling water ecosystems. His first book, Dynamics of the Atmospheric Boundary Layer, published in 1970 has withstood the passage of time and contains many ideas that still remain innovative today.

Sergej was an excellent mentor and a prodigous generator of novel ideas for his students. He supervised more than 20 Ph.D. students from many countries, some of whom became his collaborators for many years and who have co-authored many of his publications.

He made many valuable contributions to the Russian-Finnish-EU collaboration in meteorology. Beginning in 2012, he was a Chief Scientist of the International Pan-Eurasian Experiment (http://www.atm.helski.fi/peex/), a scientific programme that involved research groups from Western Europe, Russia, China, and Japan, and which focused on climate change and global pollution.

Sergej Zilitinkevich will be greatly missed by his many friends and colleagues in Russia, the EU, and America. They will remember his extraordinary intellectual abilities, his dry wit, and above all his never wavering generous kindness and friendship. He is truly a generational "one of a kind."

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†Deceased

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